

**City of Columbus  
Department of Public Utilities**

**Annual SSO and WIB Report**

**2005**



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## I. Introduction/Purpose of Report

The City of Columbus (City) and the State of Ohio entered into a consent order in August of 2002, for the resolution of Sanitary Sewer Overflow (SSO) - related concerns for the City's sanitary sewer system. In general, the Consent Order requires the City to develop and implement a Capacity, Maintenance, Operations and Management (CMOM) program. This program will address providing adequate capacity in the collection system, taking all feasible steps to address SSOs, and providing notification for overflow events.

Per the consent order, the City shall prepare an annual report of all SSOs events and Water-In-Basement (WIBs) occurrences from its sewers and from its maintenance contract areas. This is the fourth annual report to be submitted to the Ohio EPA as required by the Consent Order, Section VI, paragraph 21. This report provides the required information collected by the City in 2005.

### **Highlights from 2005 include the following:**

- ❖ The City physically eliminated five (5) Design Sanitary Relief locations. Four (4) of these locations had overflows in 2005 prior to being removed.
- ❖ Four discharge locations no longer have DSRs tributary to them.
- ❖ Compared to 2004, the number and percentage of dry weather sanitary sewer overflows associated with grease blockages dropped significantly.
- ❖ The City began an expanded preventive maintenance cleaning program aimed at cleaning all of the sewers less than 36" in diameter in every sewershed. This is part of a larger effort to clean the entire collection system on a systematic basis.
- ❖ In 2005, the first full calendar year of the City's Project Dry Basement program, the City installed two hundred thirty-two (232) backwater devices at a cost of \$1,230,000.
- ❖ A number of actions have been taken to prevent sewers from overflowing in Berliner Park.

## II. Monitoring and Reporting of Sanitary Sewer Overflows

In August of 2002, the Division of Sewerage and Drainage (DOSD) began monitoring of Designed Sanitary Relief (DSR) manholes/structures using chalk and blocks to indicate overflow activation. In addition to a scheduled route of DSR inspection, the DOSD initiated a process for internal reporting of overflows from the collection system at structures other than DSRs. This

process is outlined in the Overflow Emergency Response Plan (OERP) submitted to OEPA in December of 2003 and revised in January of 2005. All known overflow occurrences are reported to OEPA on a monthly basis in accordance with the Consent Order.

In July of 2003, the DOSD refined the criteria used to define a reportable overflow "event". Prior to July of 2003, multiple "occurrences" of overflow within a single day were reported as multiple individual "events". After July of 2003, the DOSD consolidated multiple "occurrences" within a 24-hour period, into a single "event", in accordance with the Consent Order, Section X, Paragraph 31 definition for an "event". For ease of reporting and consistency with the NPDES permit language, the 24-hour period has been defined as midnight to midnight. Therefore, overflow "occurrences" that begin prior to midnight and continue until the next day are reported as two "events".

From February to May, 2003, the DOSD installed electronic flow monitors in forty (40) of the DSR locations for the sole purpose of calibration and validation of the Sewer System Capacity Model (SSCM). By February of 2004, sufficient data had been obtained for the SSCM, therefore the DOSD began removing the monitors. However, five (5) monitors have remained in place throughout 2005.

One monitor is located at the overflow weir of DSR #83, near the Whittier Street Storm Tanks. Another is located at DSR #244 at Roads End and one is located at DSR #576 on Kanawha. The two (2) remaining flow monitors are installed at DSR #205 and DSR #208 north of Hosack, west of Parsons. These last two monitors remained in place to document improvements to flow conditions as a result of a major cleaning operation undertaken by the DOSD in 2004.

Appendix A contains the current list of monitored DSR locations as of January 2006.

### **III. Elimination of Designed Sanitary Relief (DSR) locations in 2005**

Five (5) locations were removed from the monitoring list of DSR and chronic overflow locations in 2005. All five of the DSR locations were physically removed through construction projects. Appendix A1 contains the list of DSR locations that were eliminated, the CIP# associated with the work and the date of removal.

As a result of the work to remove DSRs, four discharge locations listed in Attachment D of the Signage Action Plan no longer have DSRs tributary to them. This includes two discharge points in Glen Echo Ravine. Appendix A2 lists the discharge number and the location description for these discharge locations. Beginning in 2006, these four sites will no longer be included in the public notification plan.

### **IV. Activities Performed To Reduce the Occurrence of SSOs**

In addition to the recommendations for elimination of DSR locations outlined in the Wet Weather Management Plan (WWMP), the DOSD finalized the remaining elements of the Fats, Oils and Grease (FOG) Control Program and initiated an expanded preventive maintenance

cleaning program aimed at cleaning all sewers less than 36 inches in diameter on a systematic basis.

Under the FOG Program, two new Director's Rules have been enacted in 2005 to aid the DOSD in the abatement of FOG discharges. One rule establishes a flat fee cost recovery from the violator for the typical effort expended by DOSD staff to remove a blockage caused by a prohibited discharge. If the removal requires additional resources or an extended amount of time, DOSD can recover actual cost incurred for the cleaning of the sewer.

The other rule requires all Food Service Establishments (FSE) to develop and implement a Best Management Practices (BMP) program for the proper handling and disposal of FOG.

Also under the FOG Control Program, Columbus City Council passed an update to Columbus City Code 1145.05, to require all new or remodeled FSEs to install an outside grease interceptor unless it can be shown to be impracticable.

As part of the FOG Program, thirty-seven (37) referrals were made to the Industrial Waste Pretreatment Section (IWPS) for investigation and enforcement of discharge violations for grease in 2005. One of the referrals resulted in an administrative fine for a business under the newly approved Director's Rules. The rest of the referrals are in various stages of investigation and follow-up monitoring to ensure compliance with the FOG Program.

The FOG Program also established a procedure to educate residential homeowners and FSEs on the importance of properly discharging waste grease. Last year almost 1800 door hangers were distributed to residents near reported FOG problems.

Although all aspects of the FOG Program were not in effect for the entire year, just eleven (11) of the dry weather overflows in 2005 were associated with grease blockages. This is half the number attributed to FOG in 2004, and also represents a significant drop in the percentage of dry weather overflows to approximately one-third.

As part of our efforts to reduce the number of overflow events at DSRs, manholes were inspected and the sewers less than 36 inches were cleaned in three of the priority study areas identified in the WWMP. The names and the number of DSRs in each area are as follows: West Fifth – 15, Miller/Kelton – 9, and Northwest Alum Creek – 8. This represents more than half of the current number of DSRs listed in Appendix A.

A sewershed based preventive maintenance program was initiated in the latter part of the year with the goal of prioritizing and developing a cleaning schedule for the collection system. The process started with an inventory of each sewershed for the number of manholes, size of sewers, and sewer type (combined or sanitary). The number of overflow events and water in basement reports were then tabulated for each sewershed and weighted to reflect the size of the sewershed to develop a priority sequence.

Sewersheds with no documented overflows or WIBs will have a percentage of the system undergo CCTV inspection to determine whether there is an actual need to clean the sewers.

For sewers greater than 36 inches in diameter, the DOSD is in the initial stages of investigating available options for inspection and cleaning. It is expected that outside contractors will be hired to perform this work. To aid in the development of a prioritization schedule and scope of work, a representative portion of the sewers will be inspected at the manholes for grit and debris levels.

Last January's flooding and overflows in the Berliner Park area were due to a number of factors, and a resolution to the problem involves not only the separate sanitary sewer system, but also the storm and combined sewer systems as well.

Surcharging in the combined sewer system, in this case the OSIS, caused in turn surcharging in the sanitary sewer that serves the homes and businesses along Greenlawn Avenue. To reduce the quantity of flow in the OSIS, two things were done to isolate the OSIS from any additional flows from outside the Greenlawn Avenue, Berliner Park area. First, three sluice gates at the Whittier Street storm tanks control building have been repaired. When these gates are shut, there will be no additional sanitary flows to the OSIS from north of Greenlawn Avenue. Second, as part of the West Columbus Local Protection Project (floodwall), the work to reroute the force main for the Castle Road sanitary pump station from the OSIS to the new Scioto Main Trunk Sewer was completed in 2005. Also, a flap gate has been added to the sanitary sewer along Greenlawn Avenue before it ties into the OSIS to minimize surcharging in this line.

As the level of the river in January was above the ground elevation in much of the park area, a sluice gate on a separate storm sewer system along Greenlawn Avenue has been repaired to operate easier and to provide a better seal to help keep the river from flooding the park.

In an effort to keep both the sewage in the combined and sanitary sewer collection systems and to keep the surface water out of these systems, the manhole lids in the park have been sealed either by encasing the casting in concrete, installing bolt down lids, by tack welding the lids or in some combination of these efforts.

#### V. Summary of Sanitary Sewer Overflows Observed in 2005

The City has reported SSOs from its sewers and maintenance contract areas on a monthly basis in accordance with Section VI, paragraph 20 of the Consent Order. A summary list of the wet weather overflow events, based on the reports described in Section II, is located in Appendix B.

The City observed a total of 398 known SSO events during wet weather at 87 different locations throughout the collection system in 2005. The vast majority of these SSOs occurred at design relief points (DSRs) within the system during significant rainfall events. Seventeen (17) wet weather overflows were reported from non-DSR locations. The year 2005 was another wet one, with 1.74 inches above the average annual rainfall. Appendix C contains monthly rainfall data collected by the City during 2005.

The DOSD identified 37 sanitary sewer overflow events from the collection system in dry weather from 26 locations. These were primarily caused by blockages due to debris, mud, roots or grease in the sewer lines. Nine (9) of these events were associated with pump stations, with problems relating to failed SCADA controls, power outages, force main failure, and a piping failure. In each instance, DOSD mobilized its personnel to resolve the situation as outlined in the Overflow Emergency Response Plan. Appendix D contains a summary of all identified dry weather overflows.

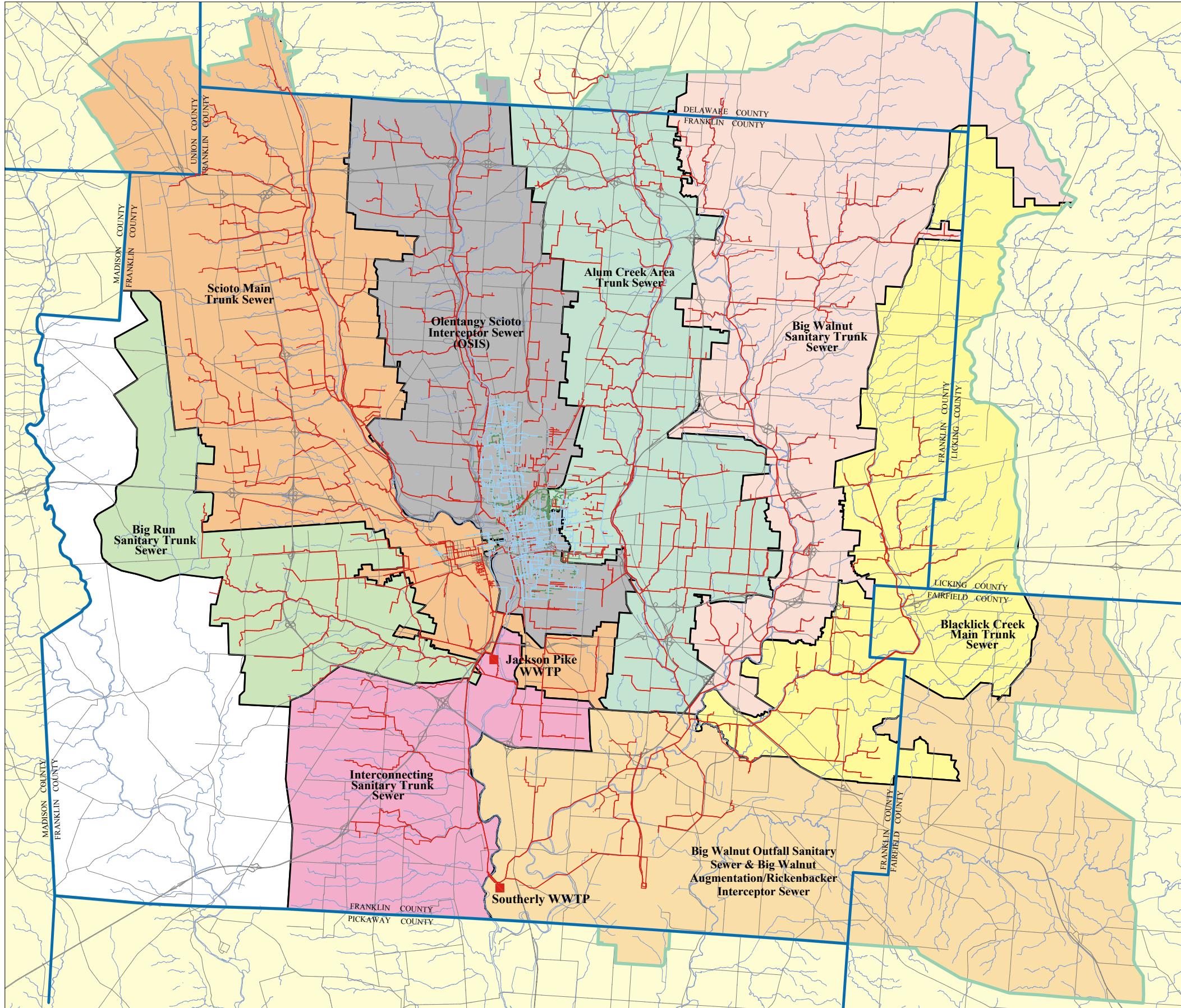
Receiving (named) waterways downstream from the SSO occurrences include the following:

Adena Brook	Kian Run
Mason Run	Barbee Ditch
Olentangy River	Alum Creek
Scioto River	Early Ditch
Walhalla Ravine	Glen Echo Ravine
Overbrook Ravine	Indian Spring Run

The City of Columbus sewer service area is broken down into eight sub-basins as shown in Exhibit 1. These sub-basins represent the areas served by major interceptors and are referred to as follows:

- Blacklick Creek Main Trunk Sewer
- Big Walnut Sanitary Trunk Sewer
- Big Walnut Outfall Augmentation/Rickenbacker Interceptor Sewer
- Alum Creek Area Trunk Sewer
- Olentangy Scioto Interceptor Sewer (OSIS)
- Scioto Main Trunk Sewer
- Big Run Sanitary Trunk Sewer
- Interconnecting Sanitary Trunk Sewer

# City of Columbus, OH Sewer Subbasins



## Legend

- Facilities Boundary
- County Line
- Interceptor Boundary
- Sanitary Sewer Line
- Storm Sewer Line
- Combined Sewer Line

## Note:

- Includes Big Walnut Augmentation Rickenbacker Interceptor Sewer which is under construction to be completed by 2009.



0 8,000 16,000 32,000  
Scale 1" = 16,000'

**Table 1** summarizes the total overflows by subbasin, including total wet weather and dry weather events.

**Table 1**

Subbasin	Total SSOs	Dry Weather	Wet Weather
Alum Creek Area Trunk Sewer	86	11	75
Big Run Sanitary Trunk Sewer	9	3	6
Olentangy Scioto Interceptor Sewer	318	13	305
Scioto Main Trunk Sewer	19	9	10
Big Walnut Sanitary Trunk Sewer	3	1	2
<b>Totals</b>	<b>435</b>	<b>37</b>	<b>398</b>

The most active overflow location in 2005 was at the DSR east of the Whittier Street Storm Tanks (Deshler Tunnel/Franklin Main) (DSR 83). The overflow activated 51 times and discharged storm-related flows to the Scioto River at the same location that the Whittier Street Storm Tanks discharge.

The second most active location was the DSR at Richards and Granden (DSR 337), discharging 15 times during periods of wet-weather. The next most active overflow, discharging 14 times in 2005, was the DSR 200' w/o Rustic Place and Olentangy Blvd. (DSR 346). All three of these DSRs will be mitigated through Large Scale System Strategies (LSSS) projects as outlined in the WWMP.

By far the most active period of overflows was the first two weeks of January, when 151 events were observed. This accounts for 38% of all the wet weather overflow events observed during the year. The total rainfall for the month (as measured at the Port Columbus Airport) was 8.95" which was 6.42" above the normal for the month. During the period from January 1st to the 6<sup>th</sup>, 5.05" of rain was measured, which accounted for over 56% of the total rainfall for the month. Also during the first couple of weeks in January there was significant ice and snow melt from precipitation in December that contributed to stream and surface flooding conditions throughout Columbus.

The second most active period of overflows occurred between March 22nd and the 28th, when 43 overflow events were observed. This is about 11% of the annual overflow events. There was 2.36" of rainfall recorded at the Airport during that period. The total overflow events for these two periods of time account for 49% of all the wet weather SSOs recorded in 2005.

The occurrence of these most active overflows is principally a capacity-related issue. These and other capacity issues have been analyzed as part of the City's System Evaluation and Capacity Assurance Plan (SECAP) efforts. The SECAP was submitted on July 1<sup>st</sup> to the OEPA for review and approval as part of the WWMP. The DOSD will continue to implement the schedule of projects in the plan pending final approval.

## VI. Assumptions Used to Estimate Overflow Volume at Monitored DSRs

At the conclusion of the calibration and validation process of the Sewer System Capacity Model (SSCM), the five sites described in Section II still have a flow monitor. Two of the monitors remained in place to document improvements to flow conditions as a result of a major cleaning operation undertaken by the DOSD in 2004. The other three are in place to facilitate the overflow documentation process.

The electronic flow meters measure the level in the manhole and are used to indicate an overflow event at a critical elevation. (e.g. overflow invert elevation). Based on the depth of sewage above the invert of the overflow pipe the overflow volume can be estimated using Manning's equation in most cases. It is important to understand that this is an estimate, based on ideal hydraulic conditions at the location.

These calculations are based on several assumptions that might affect the overflow volume calculations. Examples of these assumptions are as follows:

1. There is a free outfall at the discharge point. In locations where the discharge point is at or near the elevation of the storm sewer or receiving stream, the calculations will not apply due to potential hydraulic restrictions at the discharge point.
2. Manning friction coefficient and weir constants are valid.
3. Actual pipe slopes match the pipe slopes given on the Record Plans
4. Overflow pipe slopes are not severe. This would affect the depth of flow used in the calculations
5. Recorded data is valid with no error in meter electronics
6. There is no impact from flow turbulence in the recorded data.

Where it is suspected that these assumed conditions do not exist, the event will be designated with "NA" in Appendix E.

Appendix E shows a detailed list of flow monitored events over 1000 gallons.

Appendix F shows the summary of flow monitored events less than 1000 gallons.

Appendix G shows the stipulated penalties for the identified sanitary sewer overflows as defined in the Consent Order Section X, paragraphs 31a & 31b.

## VII. Summary of Water-In-Basement Occurrences Reported in 2005

The City has determined that 593 Water-In-Basement (WIBs) occurrences reported in 2005 were attributable to problems in the public sewer.

A summary of WIBs by subbasin is as follows:

Alum Creek Area Trunk Sewer	=	308
Olentangy Scioto Interceptor Sewer	=	139
Scioto Main Trunk Sewer	=	69
Big Run Sanitary Trunk Sewer	=	57
Big Walnut Sanitary Trunk Sewer	=	17
Interconnecting Sanitary Trunk Sewer	=	3

Approximately 75% of the WIB occurrences were reported in the Alum Creek and OSIS subbasins during periods of wet weather when overflows were activated along the major interceptor sewers. The period with the most reports of WIBs occurred during the first two weeks of January, with 404 reports through all the subbasins. **This period accounted for 68% of the reported WIBs for the year.** During this time a total of 8.25" of rain fell in the area, and the total rain for the month was over 6" above normal. Also during the first couple of weeks in January there was significant ice and snow melt from precipitation in December that contributed to flooding conditions throughout Columbus.

Other occurrences of WIBs were caused by roots and grease built up in the sewers. The City's Sewer Maintenance crews addressed these problems by cutting roots and cleaning debris from the sewer lines. Sewer segments exhibiting major root intrusion were added to the City's Root Control Program. When the cause of the blockage was determined to be due to grease, the locations were reported to the Division's Industrial Waste Pretreatment Section (IWPS) for investigation per the FOG Control Program.

To protect homes that experience repeat basement flooding, the City voluntarily instituted "Project Dry Basement" in 2004. Under this program, the City pays for the purchase and installation of a back water prevention device on the house lateral. In 2005, two hundred thirty-two (232) devices were installed at a cost of approximately \$1,230,000. Included in this program are the homes and businesses along Greenlawn Avenue that experienced flooding during the January 2005 flood.

### VIII. Report Public Notification

In 2004, the DOSD developed a web-based GIS map showing SSO discharge locations and the activity information associated with that point. This web site is accessible to the public through the Division's web page or directly at <http://gis.columbus.gov/ssocso/>. The availability of this web site assists in the compliance with the requirement for public notification of overflow events outlined in the Consent Order.

As required by the Consent Order, the City will make the public aware of this annual report by issuing a press release to the local media of its availability and by making the report available on the Division of Sewerage and Drainage's web site. Interested parties may download and print this report from the web site address of [www.dosd.org](http://www.dosd.org), available under the Project Clean Rivers and Sewer Overflow area of the site. This report will also be available at the Division's Dublin Road administration office or by mail by calling (614) 645-7176.

# Appendix A

## Design Sanitary Relief Locations – 2006

Design Sanitary Relief Locations - 2006

Reference Number	Relief Location	Sewer Sub Basin
83	e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	OSIS
95	MH Sullivant Ave. & e/o Dana Ave.	Scioto Main Trunk Sewer
96	MH alley n/o Broad St. & e/o Glenwood	Scioto Main Trunk Sewer
103	MH s/s of Third Ave., 290 ft. w/o Olentangy River Rd.	OSIS
105	MH Third Ave. & Oxley (west)	OSIS
107	MH f/o 814 W. Third Ave.	OSIS
109	MH s/s of Third Ave., 490 ft. w/o Olentangy River Rd.	OSIS
110	MH Third Ave. & Oxley (east)	OSIS
111	MH s/s of Third Ave., 690 ft. w/o Olentangy River Rd.	OSIS
132	MH Columbus & Studer	OSIS
133	MH Columbus & Linwood	OSIS
146	MH Third & Morning	OSIS
147	MH alley n/o King & w/o Star Ave.	OSIS
148	MH King Ave. & alley w/o Virginia	OSIS
149	MH Fifth Ave. & North Star	OSIS
150	MH King & North Star	OSIS
151	MH Meadow Rd. & Third Ave.	OSIS
154	MH Third Ave. & Virginia	OSIS
156	MH alley n/o Hill Ave. w/o Perry St.	OSIS
157	MH Fifth Ave. & Eastview/Kenny	OSIS
177	MH Cole St. & alley w/o Seymour	Alum Creek Trunk Sewer
179	MH Cole & Seymour	Alum Creek Trunk Sewer
181	MH Cole & alley e/o Seymour	Alum Creek Trunk Sewer
185	MH Gault & alley w/o Kelton	Alum Creek Trunk Sewer
188	MH 2nd alley w/o Seymour, 80' n/o Gault	Alum Creek Trunk Sewer
189	MH Cole & Bulen	Alum Creek Trunk Sewer
190	MH n/s Gault & alley w/o Lilley	Alum Creek Trunk Sewer
192	MH Columbus & alley w/o Kelton	OSIS
193	MH Gault & alley e/o Kimball	Alum Creek Trunk Sewer
194	MH Columbus & Miller	OSIS
199	MH Gault & alley w/o Miller	Alum Creek Trunk Sewer
201	MH Oakwood & Lawrence	OSIS
203	MH Lockbourne & Lawrence	OSIS
205	MH Bruck & alley n/o Hosack	OSIS
206	MH Bruck & Reeb	OSIS
207	MH Parsons & Kian Avenue	OSIS
208	MH Ninth & alley n/o Hosack	OSIS
210	MH Bruck & Woodrow	OSIS
211	MH e/s of Parsons, front of 1954 Parsons	OSIS
213	MH Hosack & Fourth	OSIS
241	MH Preston Rd. & Fair Ave.	Alum Creek Trunk Sewer
244	Regulator at Roads End	Alum Creek Trunk Sewer
246	Castle Rd. pump station (SA 2)	OSIS
250	MH Hague Ave. n/o Mound St.	Big Run Sanitary Trunk Sewer
252	MH Wicklow & alley w/o Powell Ave.	Scioto Main Trunk Sewer
254	MH alley n/o Sullivant Ave. e/o Roys Ave.	Scioto Main Trunk Sewer
256	MH Binns Blvd. & alley s/o Palmetto St.	Big Run Sanitary Trunk Sewer
279	MH Hudson & Parkwood	Alum Creek Trunk Sewer
284	MH n/o Pacemont at Olentangy River on 8" sanitary	OSIS
285	MH Midgard & alley e/o Indianola	OSIS
288	MH e/o Olentangy St. & Indianola	OSIS
305	MH Lakeview & alley w/o Cleveland Ave.	Alum Creek Trunk Sewer
306	MH Bremen & alley n/o Melrose	Alum Creek Trunk Sewer
307	MH Bremen & alley n/o Weber	Alum Creek Trunk Sewer

Design Sanitary Relief Locations - 2006

Reference Number	Relief Location	Sewer Sub Basin
312	MH alley e/o Bremen & Brighton Rd.	Alum Creek Trunk Sewer
314	MH s/s Weber, alley w/o Cleveland	Alum Creek Trunk Sewer
315	MH Eddystone & Suwanee	Alum Creek Trunk Sewer
317	MH Aberdeen & Parkwood	Alum Creek Trunk Sewer
322	Williams Rd. pump station (SA 1)	OSIS
323	MH Webster Pk. & Olentangy Blvd.	OSIS
326	MH Olentangy Blvd. & Montrose Way	OSIS
328	MH Como & High	OSIS
329	MH e/s Indianola & alley n/o East North Broadway	OSIS
330	MH Pauline & Atwood Terrace	OSIS
335	Gauging station in Park of Roses	OSIS
337	MH Richards & Granden	OSIS
338	MH Northridge & Atwood Terrace	OSIS
339	MH alley w/o Cleveland & n/o Ferris	Alum Creek Trunk Sewer
346	MH 200' w/o Rustic Pl. & Olentangy Blvd.	OSIS
349	MH alley e/o High & s/o Schreyer Pl.	OSIS
350	MH Wetmore & alley e/o High St.	OSIS
351	MH r/o 4895 Olentangy Blvd., w/o Olentangy Blvd. & n/o Royal Forest	OSIS
352	MH n/s of Weisheimer & Starrett	OSIS
360	MH s/o Rathbone, e/o Delawanda	OSIS
364	MH Plum Ridge n/o Lornaberry	Big Walnut Sanitary Trunk Sewer
368	MH alley e/o High, s/o Lincoln	OSIS
399	Structure r/o 2250 McKinley	Scioto Main Trunk Sewer
532	MH f/o 2145 Winslow	Alum Creek Trunk Sewer
576	MH f/o 320 Kanawha	OSIS
655	MH Seymour & Livingston	OSIS
873	MH S.R. 315 N.B. off ramp to Henderson	OSIS
898	MH California & High	OSIS
915	MH in North Star, n/o Presidential	OSIS

## Appendix A1

### Design Sanitary Relief Locations Removed in 2005

### Design Sanitary Relief Locations Removed in 2005

Reference Number	Relief Location	Sewer Sub Basin	CIP#	Removal Date
291	MH Osceola & alley s/o Weber	OSIS	648	8/2005
304	MH Alamo & alley w/o Pontiac	OSIS	648	8/2005
308	MH Minnesota & Hamilton	OSIS	655	8/2005
310	MH e/o McGuffey & Aberdeen	OSIS	655	8/2005
380	MH Lexington & alley n/o Hudson	OSIS	654	8/2005

## Appendix A2

### Inactive Discharge Locations

## Inactive Discharge Locations

Discharge Number	Discharge Location
10	borrow pit (small lake) s/w of pump station
11	Olentangy River at 106x68 inch storm sewer n/o Woody Hayes Drive
21	Glen Echo Ravine w/o I71at 84 inch storm sewer
22	Glen Echo Ravine w/o I71at 96 inch storm sewer

## Appendix B

### Annual Summary of Wet Weather Overflows

City of Columbus  
Annual Summary of Wet Weather Overflows - 2005

Location	Reference Number	Estimated Date and Time - if known				Receiving Water - if any	Component	Sub Basin
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	1/3	4:50	to	1/3	5:00	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	1/3	8:45	to	1/4	14:25	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	1/4	15:45	to	1/4	17:45	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	1/5	3:00	to	1/7	8:15	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	1/8	11:30	to	1/9	8:45	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	1/9	14:30	to	1/9	15:15	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	1/11	18:00	to	1/12	21:55	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	1/13	22:45	to	1/14	15:05	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	2/8	1:40	to	2/8	8:30	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	2/20	19:20	to	2/20	20:05	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	2/28	15:20	to	2/28	17:10	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	2/28	20:10	to	2/28	23:30	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	3/19	17:35	and	3/19	19:10	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	3/23	1:35	and	3/23	6:35	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	3/25	19:45	and	3/25	20:35	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	3/26	17:20	and	3/26	20:10	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	3/28	4:05	and	3/28	21:30	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	4/2	17:15	to	4/3	2:10	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	4/20	23:15	to	4/21	4:45	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	4/23	0:00	to	4/23	8:30	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	4/27	12:20	to	4/27	16:30	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	5/11	23:20	to	5/11	23:55	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	5/12	0:00	to	5/12	0:55	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	5/19	15:15	to	5/19	16:45	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	5/20	6:00	to	5/20	7:45	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	6/10	20:30	and	6/10	21:15	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	6/25	21:15	to	6/25	23:55	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	6/26	0:00	to	6/26	1:45	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	6/28	15:00	to	6/28	16:55	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	6/30	14:25	to	6/30	18:30	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	7/1	0:50	to	7/1	2:25	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	7/1	5:15	to	7/1	6:40	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	7/5	14:45	to	7/5	17:30	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	7/13	16:30	to	7/13	18:10	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	7/16	17:35	to	7/16	19:10	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	7/25	16:00	to	7/25	16:40	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	8/20	18:10	to	8/20	18:45	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	8/29	4:05	to	8/29	18:45	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	8/30	16:15	to	8/30	18:30	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	9/16	4:45	to	9/16	6:50	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	9/24	7:30	to	9/24	10:35	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	9/26	6:45	to	9/26	11:45	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	11/9	0:45	to	11/9	3:40	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	11/14	22:15	to	11/14	23:45	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	11/15	1:20	to	11/15	2:10	Scioto River	Design Relief OSIS
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	11/15	4:40	to	11/15	6:00	Scioto River	Design Relief OSIS
MH Sullivant Ave. & e/o Dana Ave.	95	at least once between 12/28 and 1/6				Scioto River	Design Relief	Scioto Main
MH Sullivant Ave. & e/o Dana Ave.	95	at least once between 1/6 and 1/14				Scioto River	Design Relief	Scioto Main
MH Sullivant Ave. & e/o Dana Ave.	95	at least once between 9/22 and 9/29				Scioto River	Design Relief	Scioto Main

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Location	Reference Number	Estimated Date and Time - if known			Receiving Water - if any	Component	Sub Basin	
MH alley n/o Broad St. & e/o Glenwood	96	at least once between	2/3	and	2/10	Scioto River	Design Relief	Scioto Main
MH alley n/o Broad St. & e/o Glenwood	96	at least once between	3/24	and	3/31	Scioto River	Design Relief	Scioto Main
MH s/s of Third Ave., 290 ft. w/o Olentangy River Rd.	103	at least once between	12/28	and	1/6	Olentangy River	Design Relief	OSIS
MH s/s of Third Ave., 290 ft. w/o Olentangy River Rd.	103	at least once between	1/6	and	1/14	Olentangy River	Design Relief	OSIS
MH s/s of Third Ave., 290 ft. w/o Olentangy River Rd.	103	at least once between	3/24	and	3/31	Olentangy River	Design Relief	OSIS
MH s/s of Third Ave., 290 ft. w/o Olentangy River Rd.	103	at least once between	4/21	and	4/28	Olentangy River	Design Relief	OSIS
MH s/s of Third Ave., 290 ft. w/o Olentangy River Rd.	103	at least once between	5/19	and	5/26	Olentangy River	Design Relief	OSIS
MH Third Ave. & Oxley (west)	105	at least once between	12/28	and	1/6	Olentangy River	Design Relief	OSIS
MH Third Ave. & Oxley (west)	105	at least once between	1/6	and	1/14	Olentangy River	Design Relief	OSIS
MH Third Ave. & Oxley (west)	105	at least once between	3/24	and	3/31	Olentangy River	Design Relief	OSIS
MH Third Ave. & Oxley (west)	105	at least once between	3/31	and	4/7	Olentangy River	Design Relief	OSIS
MH Third Ave. & Oxley (west)	105	at least once between	4/21	and	4/28	Olentangy River	Design Relief	OSIS
MH Third Ave. & Oxley (west)	105	at least once between	5/19	and	5/26	Olentangy River	Design Relief	OSIS
MH Third Ave. & Oxley (west)	105	at least once between	8/25	and	9/1	Olentangy River	Design Relief	OSIS
MH f/o 814 W. Third Ave.	107	at least once between	12/28	and	1/6	Olentangy River	Design Relief	OSIS
MH f/o 814 W. Third Ave.	107	at least once between	1/6	and	1/14	Olentangy River	Design Relief	OSIS
MH f/o 814 W. Third Ave.	107	at least once between	3/24	and	3/31	Olentangy River	Design Relief	OSIS
MH f/o 814 W. Third Ave.	107	at least once between	3/31	and	4/7	Olentangy River	Design Relief	OSIS
MH f/o 814 W. Third Ave.	107	at least once between	4/21	and	4/28	Olentangy River	Design Relief	OSIS
MH f/o 814 W. Third Ave.	107	at least once between	5/19	and	5/26	Olentangy River	Design Relief	OSIS
MH f/o 814 W. Third Ave.	107	at least once between	7/14	and	7/21	Olentangy River	Design Relief	OSIS
MH f/o 814 W. Third Ave.	107	at least once between	8/25	and	9/1	Olentangy River	Design Relief	OSIS
MH f/o 814 W. Third Ave.	107	at least once between	9/22	and	9/29	Olentangy River	Design Relief	OSIS
MH f/o 814 W. Third Ave.	107	at least once between	11/3	and	11/10	Olentangy River	Design Relief	OSIS
MH s/s of Third Ave., 490 ft. w/o Olentangy River Rd.	109	at least once between	12/28	and	1/6	Olentangy River	Design Relief	OSIS
MH s/s of Third Ave., 490 ft. w/o Olentangy River Rd.	109	at least once between	1/6	and	1/14	Olentangy River	Design Relief	OSIS
MH s/s of Third Ave., 490 ft. w/o Olentangy River Rd.	109	at least once between	3/24	and	3/31	Olentangy River	Design Relief	OSIS
MH s/s of Third Ave., 490 ft. w/o Olentangy River Rd.	109	at least once between	3/31	and	4/7	Olentangy River	Design Relief	OSIS
MH s/s of Third Ave., 490 ft. w/o Olentangy River Rd.	109	at least once between	4/21	and	4/28	Olentangy River	Design Relief	OSIS
MH s/s of Third Ave., 490 ft. w/o Olentangy River Rd.	109	at least once between	5/19	and	5/26	Olentangy River	Design Relief	OSIS
MH s/s of Third Ave., 490 ft. w/o Olentangy River Rd.	109	at least once between	8/25	and	9/1	Olentangy River	Design Relief	OSIS
MH s/s of Third Ave., 490 ft. w/o Olentangy River Rd.	109	at least once between	9/22	and	9/29	Olentangy River	Design Relief	OSIS
MH Third Ave. & Oxley (east)	110	at least once between	12/28	and	1/6	Olentangy River	Design Relief	OSIS
MH Third Ave. & Oxley (east)	110	at least once between	1/6	and	1/14	Olentangy River	Design Relief	OSIS
MH Third Ave. & Oxley (east)	110	at least once between	3/24	and	3/31	Olentangy River	Design Relief	OSIS
MH Third Ave. & Oxley (east)	110	at least once between	3/31	and	4/7	Olentangy River	Design Relief	OSIS
MH Third Ave. & Oxley (east)	110	at least once between	4/21	and	4/28	Olentangy River	Design Relief	OSIS
MH Third Ave. & Oxley (east)	110	at least once between	5/19	and	5/26	Olentangy River	Design Relief	OSIS
MH Third Ave. & Oxley (east)	110	at least once between	8/25	and	9/1	Olentangy River	Design Relief	OSIS
MH Third Ave. & Oxley (east)	110	at least once between	9/22	and	9/29	Olentangy River	Design Relief	OSIS
MH s/s of Third Ave., 690 ft. w/o Olentangy River Rd.	111	at least once between	12/28	and	1/6	Olentangy River	Design Relief	OSIS
MH s/s of Third Ave., 690 ft. w/o Olentangy River Rd.	111	at least once between	1/6	and	1/14	Olentangy River	Design Relief	OSIS
MH s/s of Third Ave., 690 ft. w/o Olentangy River Rd.	111	at least once between	3/24	and	3/31	Olentangy River	Design Relief	OSIS
MH s/s of Third Ave., 690 ft. w/o Olentangy River Rd.	111	at least once between	4/21	and	4/28	Olentangy River	Design Relief	OSIS
MH s/s of Third Ave., 690 ft. w/o Olentangy River Rd.	111	at least once between	5/19	and	5/26	Olentangy River	Design Relief	OSIS
MH s/s of Third Ave., 690 ft. w/o Olentangy River Rd.	111	at least once between	8/25	and	9/1	Olentangy River	Design Relief	OSIS
MH s/s of Third Ave., 690 ft. w/o Olentangy River Rd.	111	at least once between	9/22	and	9/29	Olentangy River	Design Relief	OSIS
MH Columbus & Studer	132	at least once between	12/28	and	1/5	Alum Creek	Design Relief	OSIS
MH Columbus & Studer	132	at least once between	1/5	and	1/13	Alum Creek	Design Relief	OSIS
MH Columbus & Studer	132	at least once between	3/23	and	3/30	Alum Creek	Design Relief	OSIS

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Location	Reference Number	Estimated Date and Time - if known			Receiving Water - if any	Component	Sub Basin
MH Columbus & Studer	132	at least once between	5/18	and	5/25	Alum Creek	Design Relief OSIS
MH Columbus & Studer	132	at least once between	6/8	and	6/15	Alum Creek	Design Relief OSIS
MH Columbus & Studer	132	at least once between	8/24	and	8/31	Alum Creek	Design Relief OSIS
MH Columbus & Studer	132	at least once between	9/21	and	9/28	Alum Creek	Design Relief OSIS
MH Columbus & Linwood	133	at least once between	1/5	and	1/13	Alum Creek	Design Relief OSIS
MH Columbus & Linwood	133	at least once between	3/23	and	3/30	Alum Creek	Design Relief OSIS
MH Columbus & Linwood	133	at least once between	8/24	and	8/31	Alum Creek	Design Relief OSIS
MH Columbus & Linwood	133	at least once between	9/21	and	9/28	Alum Creek	Design Relief OSIS
MH Third & Morning	146	at least once between	12/28	and	1/6	Olentangy River	Design Relief OSIS
MH Third & Morning	146	at least once between	1/6	and	1/14	Olentangy River	Design Relief OSIS
MH Third & Morning	146	at least once between	1/21	and	1/27	Olentangy River	Design Relief OSIS
MH Third & Morning	146	at least once between	2/10	and	2/17	Olentangy River	Design Relief OSIS
MH Third & Morning	146	at least once between	3/24	and	3/31	Olentangy River	Design Relief OSIS
MH Third & Morning	146	at least once between	3/31	and	4/7	Olentangy River	Design Relief OSIS
MH Third & Morning	146	at least once between	4/21	and	4/28	Olentangy River	Design Relief OSIS
MH Third & Morning	146	at least once between	5/19	and	5/26	Olentangy River	Design Relief OSIS
MH Third & Morning	146	at least once between	8/25	and	9/1	Olentangy River	Design Relief OSIS
MH Third & Morning	146	at least once between	9/22	and	9/29	Olentangy River	Design Relief OSIS
MH alley n/o King & w/o Star Ave.	147	at least once between	12/28	and	1/6	Olentangy River	Design Relief OSIS
MH alley n/o King & w/o Star Ave.	147	at least once between	1/6	and	1/14	Olentangy River	Design Relief OSIS
MH King Ave. & alley w/o Virginia	148	at least once between	1/6	and	1/14	Olentangy River	Design Relief OSIS
MH King Ave. & alley w/o Virginia	148	at least once between	3/24	and	3/31	Olentangy River	Design Relief OSIS
MH King Ave. & alley w/o Virginia	148	at least once between	5/19	and	5/26	Olentangy River	Design Relief OSIS
MH King Ave. & alley w/o Virginia	148	at least once between	8/25	and	9/1	Olentangy River	Design Relief OSIS
MH Fifth Ave. & North Star	149	at least once between	12/28	and	1/6	Olentangy River	Design Relief OSIS
MH Fifth Ave. & North Star	149	at least once between	1/6	and	1/14	Olentangy River	Design Relief OSIS
MH Fifth Ave. & North Star	149	at least once between	3/24	and	3/31	Olentangy River	Design Relief OSIS
MH Fifth Ave. & North Star	149	at least once between	5/19	and	5/26	Olentangy River	Design Relief OSIS
MH King & North Star	150	at least once between	12/28	and	1/6	Olentangy River	Design Relief OSIS
MH King & North Star	150	at least once between	1/6	and	1/14	Olentangy River	Design Relief OSIS
MH King & North Star	150	at least once between	3/24	and	3/31	Olentangy River	Design Relief OSIS
MH King & North Star	150	at least once between	5/19	and	5/26	Olentangy River	Design Relief OSIS
MH Meadow Rd. & Third Ave.	151	at least once between	1/6	and	1/14	Olentangy River	Design Relief OSIS
MH Meadow Rd. & Third Ave.	151	at least once between	5/19	and	5/26	Olentangy River	Design Relief OSIS
MH Meadow Rd. & Third Ave.	151	at least once between	8/25	and	9/1	Olentangy River	Design Relief OSIS
MH Third Ave. & Virginia	154	at least once between	1/6	and	1/14	Olentangy River	Design Relief OSIS
MH Fifth Ave. & Eastview/Kenny	157	at least once between	12/28	and	1/6	Olentangy River	Design Relief OSIS
MH Fifth Ave. & Eastview/Kenny	157	at least once between	1/6	and	1/14	Olentangy River	Design Relief OSIS
MH Fifth Ave. & Eastview/Kenny	157	at least once between	3/24	and	3/31	Olentangy River	Design Relief OSIS
MH Fifth Ave. & Eastview/Kenny	157	at least once between	5/19	and	5/26	Olentangy River	Design Relief OSIS
MH Fifth Ave. & Eastview/Kenny	157	at least once between	8/25	and	9/1	Olentangy River	Design Relief OSIS
MH Cole St. & alley w/o Seymour	177	at least once between	12/28	and	1/5	Alum Creek	Design Relief Alum Creek
MH Cole St. & alley w/o Seymour	177	at least once between	1/5	and	1/13	Alum Creek	Design Relief Alum Creek
MH Cole St. & alley w/o Seymour	177	at least once between	3/23	and	3/30	Alum Creek	Design Relief Alum Creek
MH Cole St. & alley w/o Seymour	177	at least once between	8/24	and	8/31	Alum Creek	Design Relief Alum Creek
MH Cole St. & alley w/o Seymour	177	at least once between	9/21	and	9/28	Alum Creek	Design Relief Alum Creek
MH Cole & alley e/o Seymour	181	at least once between	7/13	and	7/20	Alum Creek	Design Relief Alum Creek
MH Gault & alley w/o Kelton	185	at least once between	1/5	and	1/13	Alum Creek	Design Relief Alum Creek
MH Gault & alley w/o Kelton	185	at least once between	8/24	and	8/31	Alum Creek	Design Relief Alum Creek

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Location	Reference Number	Estimated Date and Time - if known				Receiving Water - if any	Component	Sub Basin
MH Gault & alley w/o Kelton	185	at least once between	9/21	and	9/28		Alum Creek	Design Relief Alum Creek
MH Cole & Bulen	189	at least once between	6/29	and	7/7		Alum Creek	Design Relief Alum Creek
MH Gault & alley e/o Kimball	193	at least once between	1/5	and	1/13		Alum Creek	Design Relief Alum Creek
MH Columbus & Miller	194	at least once between	1/5	and	1/13		Alum Creek	Design Relief OSIS
MH Columbus & Miller	194	at least once between	9/21	and	9/28		Alum Creek	Design Relief OSIS
MH Gault & alley w/o Miller	199	at least once between	1/5	and	1/13		Alum Creek	Design Relief Alum Creek
MH Gault & alley w/o Miller	199	at least once between	9/14	and	9/21		Alum Creek	Design Relief Alum Creek
MH Oakwood & Lawrence	201	at least once between	12/28	and	1/5		Scioto River	Design Relief OSIS
MH Oakwood & Lawrence	201	at least once between	1/5	and	1/13		Scioto River	Design Relief OSIS
MH Oakwood & Lawrence	201	at least once between	3/23	and	3/30		Scioto River	Design Relief OSIS
MH Oakwood & Lawrence	201	at least once between	4/20	and	4/27		Scioto River	Design Relief OSIS
MH Oakwood & Lawrence	201	at least once between	8/24	and	8/31		Scioto River	Design Relief OSIS
MH Oakwood & Lawrence	201	at least once between	9/21	and	9/28		Scioto River	Design Relief OSIS
MH Oakwood & Lawrence	201	at least once between	11/9	and	11/16		Scioto River	Design Relief OSIS
MH Bruck & alley n/o Hosack	205		1/3	4:45	to	1/4	1:30	Scioto River
MH Bruck & alley n/o Hosack	205		1/5	2:15	to	1/6	16:05	Scioto River
MH Bruck & alley n/o Hosack	205		1/11	15:25	to	1/11	16:00	Scioto River
MH Bruck & alley n/o Hosack	205		1/11	17:35	to	1/12	9:40	Scioto River
MH Bruck & alley n/o Hosack	205		1/12	10:05	to	1/12	10:25	Scioto River
MH Bruck & alley n/o Hosack	205		1/13	20:25	to	1/14	1:05	Scioto River
MH Bruck & alley n/o Hosack	205			8/30	17:40	to	8/30	23:55
MH Bruck & alley n/o Hosack	205			8/31	0:00	to	8/31	0:30
MH Bruck & alley n/o Hosack	205			9/24	7:15	to	9/24	10:25
MH Bruck & alley n/o Hosack	205			11/15	8:30	to	11/15	12:25
MH Bruck & Reeb	206	at least once between	1/5	and	1/13		Scioto River	Design Relief OSIS
MH Bruck & Reeb	206	at least once between	6/22	and	6/29		Scioto River	Design Relief OSIS
MH Bruck & Reeb	206	at least once between	6/29	and	7/7		Scioto River	Design Relief OSIS
MH Bruck & Reeb	206	at least once between	8/24	and	8/31		Scioto River	Design Relief OSIS
MH Bruck & Reeb	206	at least once between	9/14	and	9/21		Scioto River	Design Relief OSIS
MH Bruck & Reeb	206	at least once between	9/21	and	9/28		Scioto River	Design Relief OSIS
MH Ninth & alley n/o Hosack	208		1/3	5:15	to	1/3	19:35	Scioto River
MH Ninth & alley n/o Hosack	208		1/5	2:50	to	1/5	10:05	Scioto River
MH Ninth & alley n/o Hosack	208		1/5	10:10	to	1/6	10:05	Scioto River
MH Ninth & alley n/o Hosack	208		1/11	18:05	to	1/12	5:00	Scioto River
MH Ninth & alley n/o Hosack	208		3/28	6:10	and	3/28	10:10	Scioto River
MH Ninth & alley n/o Hosack	208		8/30	18:35	to	8/30	22:05	Scioto River
MH Ninth & alley n/o Hosack	208		9/24	7:30	to	9/24	8:45	Scioto River
MH Bruck & Woodrow	210	at least once between	12/28	and	1/5		Scioto River	Design Relief OSIS
MH Bruck & Woodrow	210	at least once between	1/5	and	1/13		Scioto River	Design Relief OSIS
MH Bruck & Woodrow	210	at least once between	3/23	and	3/30		Scioto River	Design Relief OSIS
MH Bruck & Woodrow	210	at least once between	6/22	and	6/29		Scioto River	Design Relief OSIS
MH Bruck & Woodrow	210	at least once between	6/29	and	7/7		Scioto River	Design Relief OSIS
MH Bruck & Woodrow	210	at least once between	7/20	and	7/27		Scioto River	Design Relief OSIS
MH Bruck & Woodrow	210	at least once between	8/24	and	8/31		Scioto River	Design Relief OSIS
MH Bruck & Woodrow	210	at least once between	9/21	and	9/28		Scioto River	Design Relief OSIS
MH Bruck & Woodrow	210	at least once between	11/9	and	11/16		Scioto River	Design Relief OSIS
MH e/s of Parsons, front of 1954 Parsons	211	at least once between	3/23	and	3/30		Scioto River	Design Relief OSIS
MH e/s of Parsons, front of 1954 Parsons	211	at least once between	9/21	and	9/28		Scioto River	Design Relief OSIS
MH Hosack & Fourth	213	at least once between	9/21	and	9/28		Scioto River	Design Relief OSIS

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Location	Reference Number	Estimated Date and Time - if known				Receiving Water - if any	Component	Sub Basin
Regulator at Roads End	244		1/3	11:00	to	1/4	2:15	Alum Creek
Regulator at Roads End	244		1/5	5:15	to	1/6	19:30	Alum Creek
Regulator at Roads End	244		1/11	20:15	to	1/12	11:30	Alum Creek
Regulator at Roads End	244		3/28	12:15	and	3/28	15:30	Alum Creek
Castle Road pump station	246	at least once between	1/3		and	1/14		Scioto River manhole
MH Hague Ave. n/o Mound St.	250	at least once between	12/28		and	1/6		Early Ditch
MH Hague Ave. n/o Mound St.	250	at least once between	1/6		and	1/14		Early Ditch
MH Hague Ave. n/o Mound St.	250	at least once between	3/24		and	3/31		Early Ditch
MH Hague Ave. n/o Mound St.	250	at least once between	9/22		and	9/29		Early Ditch
MH Wicklow & alley w/o Powell Ave.	252	at least once between	9/22		and	9/29		Early Ditch
MH alley n/o Sullivant Ave. e/o Roys Ave.	254	at least once between	12/28		and	1/6		Early Ditch
MH alley n/o Sullivant Ave. e/o Roys Ave.	254	at least once between	1/6		and	1/14		Early Ditch
MH alley n/o Sullivant Ave. e/o Roys Ave.	254	at least once between	3/24		and	3/31		Early Ditch
MH Binns Blvd. & alley s/o Palmetto St.	256	at least once between	1/6		and	1/14		Early Ditch
MH Binns Blvd. & alley s/o Palmetto St.	256	at least once between	11/3		and	11/10		Early Ditch
MH Hudson & Parkwood	279	at least once between	1/10		and	1/18	ditch that Parkwood crosses s/o Mock Road	Design Relief Alum Creek
MH Hudson & Parkwood	279	at least once between	5/16		and	5/23	ditch that Parkwood crosses s/o Mock Road	Design Relief Alum Creek
MH Hudson & Parkwood	279	at least once between	6/27		and	7/5	ditch that Parkwood crosses s/o Mock Road	Design Relief Alum Creek
MH Hudson & Parkwood	279	at least once between	7/6		and	7/11	ditch that Parkwood crosses s/o Mock Road	Design Relief Alum Creek
MH Hudson & Parkwood	279	at least once between	8/29		and	9/6	ditch that Parkwood crosses s/o Mock Road	Design Relief Alum Creek
MH Hudson & Parkwood	279	at least once between	9/12		and	9/19	ditch that Parkwood crosses s/o Mock Road	Design Relief Alum Creek
MH Hudson & Parkwood	279	at least once between	9/19		and	9/26	ditch that Parkwood crosses s/o Mock Road	Design Relief Alum Creek
MH Hudson & Parkwood	279	at least once between	11/7		and	11/14	ditch that Parkwood crosses s/o Mock Road	Design Relief Alum Creek
MH Midgard & alley e/o Indianola	285	at least once between	1/4		and	1/11	Walhalla Ravine	Design Relief OSIS
MH Alamo & alley w/o Pontiac	304	at least once between	1/10		and	1/18	Glen Echo Ravine	Design Relief OSIS
MH Lakeview & alley w/o Cleveland Ave.	305	at least once between	12/27		and	1/3	ditch e/o Perdue & n/o Aberdeen	Design Relief Alum Creek
MH Lakeview & alley w/o Cleveland Ave.	305	at least once between	1/3		and	1/10	ditch e/o Perdue & n/o Aberdeen	Design Relief Alum Creek
MH Lakeview & alley w/o Cleveland Ave.	305	at least once between	1/10		and	1/18	ditch e/o Perdue & n/o Aberdeen	Design Relief Alum Creek
MH Lakeview & alley w/o Cleveland Ave.	305	at least once between	3/21		and	3/28	ditch e/o Perdue & n/o Aberdeen	Design Relief Alum Creek
MH Lakeview & alley w/o Cleveland Ave.	305	at least once between	5/16		and	5/23	ditch e/o Perdue & n/o Aberdeen	Design Relief Alum Creek
MH Lakeview & alley w/o Cleveland Ave.	305	at least once between	6/27		and	7/5	ditch e/o Perdue & n/o Aberdeen	Design Relief Alum Creek
MH Lakeview & alley w/o Cleveland Ave.	305	at least once between	7/6		and	7/11	ditch e/o Perdue & n/o Aberdeen	Design Relief Alum Creek
MH Lakeview & alley w/o Cleveland Ave.	305	at least once between	9/12		and	9/19	ditch e/o Perdue & n/o Aberdeen	Design Relief Alum Creek
MH Bremen & alley n/o Melrose	306	at least once between	12/27		and	1/3	ditch e/o Perdue & n/o Aberdeen	Design Relief Alum Creek
MH Bremen & alley n/o Melrose	306	at least once between	1/10		and	1/18	ditch e/o Perdue & n/o Aberdeen	Design Relief Alum Creek
MH Bremen & alley n/o Melrose	306	at least once between	3/21		and	3/28	ditch e/o Perdue & n/o Aberdeen	Design Relief Alum Creek
MH Bremen & alley n/o Melrose	306	at least once between	5/16		and	5/23	ditch e/o Perdue & n/o Aberdeen	Design Relief Alum Creek
MH Bremen & alley n/o Weber	307	at least once between	12/27		and	1/3	ditch e/o Perdue & n/o Aberdeen	Design Relief Alum Creek
MH Bremen & alley n/o Weber	307	at least once between	1/10		and	1/18	ditch e/o Perdue & n/o Aberdeen	Design Relief Alum Creek
MH Bremen & alley n/o Weber	307	at least once between	3/21		and	3/28	ditch e/o Perdue & n/o Aberdeen	Design Relief Alum Creek
MH Minnesota & Hamilton	308	at least once between	12/27		and	1/3	Glen Echo Ravine	Design Relief OSIS
MH Minnesota & Hamilton	308	at least once between	5/16		and	5/23	Glen Echo Ravine	Design Relief OSIS
MH e/o McGuffey & Aberdeen	310	at least once between	12/27		and	1/3	Glen Echo Ravine	Design Relief OSIS
MH e/o McGuffey & Aberdeen	310	at least once between	1/10		and	1/18	Glen Echo Ravine	Design Relief OSIS
MH e/o McGuffey & Aberdeen	310	at least once between	5/16		and	5/23	Glen Echo Ravine	Design Relief OSIS
MH e/o McGuffey & Aberdeen	310	at least once between	6/27		and	7/5	Glen Echo Ravine	Design Relief OSIS
MH e/o McGuffey & Aberdeen	310	at least once between	8/22		and	8/29	Glen Echo Ravine	Design Relief OSIS
MH alley e/o Bremen & Brighton Rd.	312	at least once between	12/27		and	1/3	ditch e/o Perdue & n/o Aberdeen	Design Relief Alum Creek
MH alley e/o Bremen & Brighton Rd.	312	at least once between	1/10		and	1/18	ditch e/o Perdue & n/o Aberdeen	Design Relief Alum Creek

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Location	Reference Number	Estimated Date and Time - if known			Receiving Water - if any	Component	Sub Basin		
MH alley e/o Bremen & Brighton Rd.	312	at least once between	1/18	and	1/24	ditch e/o Perdue & n/o Aberdeen	Design Relief	Alum Creek	
MH s/s Weber, alley w/o Cleveland	314	at least once between	12/27	and	1/3	ditch e/o Perdue & n/o Aberdeen	Design Relief	Alum Creek	
MH s/s Weber, alley w/o Cleveland	314	at least once between	1/3	and	1/10	ditch e/o Perdue & n/o Aberdeen	Design Relief	Alum Creek	
MH s/s Weber, alley w/o Cleveland	314	at least once between	1/10	and	1/18	ditch e/o Perdue & n/o Aberdeen	Design Relief	Alum Creek	
MH s/s Weber, alley w/o Cleveland	314	at least once between	3/21	and	3/28	ditch e/o Perdue & n/o Aberdeen	Design Relief	Alum Creek	
MH s/s Weber, alley w/o Cleveland	314	at least once between	4/18	and	4/25	ditch e/o Perdue & n/o Aberdeen	Design Relief	Alum Creek	
MH s/s Weber, alley w/o Cleveland	314	at least once between	5/16	and	5/23	ditch e/o Perdue & n/o Aberdeen	Design Relief	Alum Creek	
MH s/s Weber, alley w/o Cleveland	314	at least once between	6/27	and	7/5	ditch e/o Perdue & n/o Aberdeen	Design Relief	Alum Creek	
MH s/s Weber, alley w/o Cleveland	314	at least once between	7/6	and	7/11	ditch e/o Perdue & n/o Aberdeen	Design Relief	Alum Creek	
MH s/s Weber, alley w/o Cleveland	314	at least once between	8/29	and	9/6	ditch e/o Perdue & n/o Aberdeen	Design Relief	Alum Creek	
MH s/s Weber, alley w/o Cleveland	314	at least once between	9/12	and	9/19	ditch e/o Perdue & n/o Aberdeen	Design Relief	Alum Creek	
MH Eddystone & Suwanee	315	at least once between	12/27	and	1/3	ditch e/o Perdue & n/o Aberdeen	Design Relief	Alum Creek	
MH Eddystone & Suwanee	315	at least once between	1/3	and	1/10	ditch e/o Perdue & n/o Aberdeen	Design Relief	Alum Creek	
MH Eddystone & Suwanee	315	at least once between	1/10	and	1/18	ditch e/o Perdue & n/o Aberdeen	Design Relief	Alum Creek	
MH Eddystone & Suwanee	315	at least once between	3/21	and	3/28	ditch e/o Perdue & n/o Aberdeen	Design Relief	Alum Creek	
MH Eddystone & Suwanee	315	at least once between	5/16	and	5/23	ditch e/o Perdue & n/o Aberdeen	Design Relief	Alum Creek	
MH Eddystone & Suwanee	315	at least once between	6/27	and	7/5	ditch e/o Perdue & n/o Aberdeen	Design Relief	Alum Creek	
MH Eddystone & Suwanee	315	at least once between	8/29	and	9/6	ditch e/o Perdue & n/o Aberdeen	Design Relief	Alum Creek	
Williams Road pump station	322	at least once between	1/3	and	1/14	Scioto River		manhole	OSIS
MH Webster Pk. & Olentangy Blvd.	323	at least once between	1/4	and	1/11	ditch on s/s of Webster Park w/o Olentangy Blvd.	Design Relief	OSIS	
MH Webster Pk. & Olentangy Blvd.	323	at least once between	1/11	and	1/19	ditch on s/s of Webster Park w/o Olentangy Blvd.	Design Relief	OSIS	
MH Webster Pk. & Olentangy Blvd.	323	at least once between	8/23	and	8/30	ditch on s/s of Webster Park w/o Olentangy Blvd.	Design Relief	OSIS	
MH Olentangy Blvd. & Montrose Way	326	at least once between	12/27	and	1/4	Olentangy River		Design Relief	OSIS
MH Olentangy Blvd. & Montrose Way	326	at least once between	1/4	and	1/11	Olentangy River		Design Relief	OSIS
MH Olentangy Blvd. & Montrose Way	326	at least once between	1/11	and	1/19	Olentangy River		Design Relief	OSIS
MH Olentangy Blvd. & Montrose Way	326	at least once between	3/22	and	3/29	Olentangy River		Design Relief	OSIS
MH Olentangy Blvd. & Montrose Way	326	at least once between	5/17	and	5/24	Olentangy River		Design Relief	OSIS
MH Olentangy Blvd. & Montrose Way	326	at least once between	6/21	and	6/28	Olentangy River		Design Relief	OSIS
MH Olentangy Blvd. & Montrose Way	326	at least once between	6/28	and	7/6	Olentangy River		Design Relief	OSIS
MH Como & High	328	at least once between	12/27	and	1/4	Olentangy River		Design Relief	OSIS
MH Como & High	328	at least once between	1/11	and	1/19	Olentangy River		Design Relief	OSIS
MH Como & High	328	at least once between	3/23	and	3/29	Olentangy River		Design Relief	OSIS
MH Como & High	328	at least once between	4/5	and	4/6	Olentangy River		Design Relief	OSIS
MH Como & High	328	at least once between	5/18	and	5/24	Olentangy River		Design Relief	OSIS
MH Como & High	328	at least once between	6/28	and	6/29	Olentangy River		Design Relief	OSIS
MH Como & High	328	at least once between	6/29	and	7/6	Olentangy River		Design Relief	OSIS
MH Como & High	328	at least once between	9/21	and	9/27	Olentangy River		Design Relief	OSIS
MH e/s Indianola & alley n/o East North Broadway	329	at least once between	1/11	and	1/19	Walhalla Ravine		Design Relief	OSIS
MH e/s Indianola & alley n/o East North Broadway	329	at least once between	5/17	and	5/24	Walhalla Ravine		Design Relief	OSIS
MH e/s Indianola & alley n/o East North Broadway	329	at least once between	6/28	and	7/6	Walhalla Ravine		Design Relief	OSIS
MH Pauline & Atwood Terrace	330	at least once between	12/27	and	1/3	Overbrook Ravine		Design Relief	OSIS
MH Pauline & Atwood Terrace	330	at least once between	3/21	and	3/28	Overbrook Ravine		Design Relief	OSIS
Gauging station in Park of Roses	335	at least once between	1/4	and	1/11	Adena Brook/Indian Spring Run		Design Relief	OSIS
Gauging station in Park of Roses	335	at least once between	1/11	and	1/19	Adena Brook/Indian Spring Run		Design Relief	OSIS
MH Richards & Granden	337	at least once between	12/27	and	1/4	Olentangy River		Design Relief	OSIS
MH Richards & Granden	337	at least once between	1/4	and	1/11	Olentangy River		Design Relief	OSIS
MH Richards & Granden	337	at least once between	1/11	and	1/19	Olentangy River		Design Relief	OSIS
MH Richards & Granden	337	at least once between	3/23	and	3/29	Olentangy River		Design Relief	OSIS
MH Richards & Granden	337	at least once between	3/30	and	4/5	Olentangy River		Design Relief	OSIS

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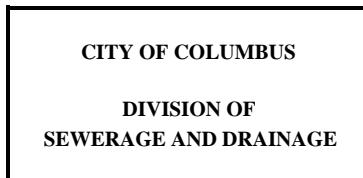
Location	Reference Number	Estimated Date and Time - if known				Receiving Water - if any	Component	Sub Basin
MH Richards & Granden	337	at least once between	5/18	and	5/24	Olentangy River	Design Relief	OSIS
MH Richards & Granden	337	at least once between	6/28	and	6/29	Olentangy River	Design Relief	OSIS
MH Richards & Granden	337	at least once between	6/29	and	7/6	Olentangy River	Design Relief	OSIS
MH Richards & Granden	337	at least once between	7/13	and	7/19	Olentangy River	Design Relief	OSIS
MH Richards & Granden	337	at least once between	7/19	and	7/20	Olentangy River	Design Relief	OSIS
MH Richards & Granden	337	at least once between	8/10	and	8/16	Olentangy River	Design Relief	OSIS
MH Richards & Granden	337	at least once between	8/30	and	8/31	Olentangy River	Design Relief	OSIS
MH Richards & Granden	337	at least once between	9/14	and	9/20	Olentangy River	Design Relief	OSIS
MH Richards & Granden	337	at least once between	10/25	and	10/26	Olentangy River at 48 inch storm sewer n/o West North	Design Relief	OSIS
MH Richards & Granden	337	at least once between	11/9	and	11/15	Olentangy River	Design Relief	OSIS
MH Northridge & Atwood Terrace	338	at least once between	12/27	and	1/3	Overbrook Ravine	Design Relief	OSIS
MH Northridge & Atwood Terrace	338	at least once between	1/3	and	1/10	Overbrook Ravine	Design Relief	OSIS
MH Northridge & Atwood Terrace	338	at least once between	1/10	and	1/18	Overbrook Ravine	Design Relief	OSIS
MH Northridge & Atwood Terrace	338	at least once between	3/21	and	3/28	Overbrook Ravine	Design Relief	OSIS
MH Northridge & Atwood Terrace	338	at least once between	5/16	and	5/23	Overbrook Ravine	Design Relief	OSIS
MH Northridge & Atwood Terrace	338	at least once between	6/27	and	7/5	Overbrook Ravine	Design Relief	OSIS
MH Northridge & Atwood Terrace	338	at least once between	7/6	and	7/11	Overbrook Ravine	Design Relief	OSIS
MH Northridge & Atwood Terrace	338	at least once between	8/29	and	9/6	Overbrook Ravine	Design Relief	OSIS
MH Northridge & Atwood Terrace	338	at least once between	9/12	and	9/19	Overbrook Ravine	Design Relief	OSIS
MH Northridge & Atwood Terrace	338	at least once between	11/7	and	11/14	Overbrook Ravine	Design Relief	OSIS
MH alley w/o Cleveland & n/o Ferris	339	at least once between	12/27	and	1/3	ditch e/o Cleveland & s/o Ferris	Design Relief	Alum Creek
MH alley w/o Cleveland & n/o Ferris	339	at least once between	1/10	and	1/18	ditch e/o Cleveland & s/o Ferris	Design Relief	Alum Creek
MH alley w/o Cleveland & n/o Ferris	339	at least once between	3/21	and	3/28	ditch e/o Cleveland & s/o Ferris	Design Relief	Alum Creek
MH alley w/o Cleveland & n/o Ferris	339	at least once between	5/16	and	5/23	ditch e/o Cleveland & s/o Ferris	Design Relief	Alum Creek
MH alley w/o Cleveland & n/o Ferris	339	at least once between	6/27	and	7/5	ditch e/o Cleveland & s/o Ferris	Design Relief	Alum Creek
MH 200' w/o Rustic Pl. & Olentangy Blvd.	346	at least once between	1/4	and	1/11	Olentangy River	Design Relief	OSIS
MH 200' w/o Rustic Pl. & Olentangy Blvd.	346	at least once between	1/11	and	1/19	Olentangy River	Design Relief	OSIS
MH 200' w/o Rustic Pl. & Olentangy Blvd.	346	at least once between	1/25	and	2/1	Olentangy River	Design Relief	OSIS
MH 200' w/o Rustic Pl. & Olentangy Blvd.	346	at least once between	2/8	and	2/15	Olentangy River	Design Relief	OSIS
MH 200' w/o Rustic Pl. & Olentangy Blvd.	346	at least once between	3/22	and	3/29	Olentangy River	Design Relief	OSIS
MH 200' w/o Rustic Pl. & Olentangy Blvd.	346	at least once between	4/5	and	4/12	Olentangy River	Design Relief	OSIS
MH 200' w/o Rustic Pl. & Olentangy Blvd.	346	at least once between	4/19	and	4/26	Olentangy River	Design Relief	OSIS
MH 200' w/o Rustic Pl. & Olentangy Blvd.	346	at least once between	5/17	and	5/24	Olentangy River	Design Relief	OSIS
MH 200' w/o Rustic Pl. & Olentangy Blvd.	346	at least once between	5/24	and	6/1	Olentangy River	Design Relief	OSIS
MH 200' w/o Rustic Pl. & Olentangy Blvd.	346	at least once between	6/28	and	7/6	Olentangy River	Design Relief	OSIS
MH 200' w/o Rustic Pl. & Olentangy Blvd.	346	at least once between	9/13	and	9/20	Olentangy River	Design Relief	OSIS
MH 200' w/o Rustic Pl. & Olentangy Blvd.	346	at least once between	9/20	and	9/27	Olentangy River	Design Relief	OSIS
MH 200' w/o Rustic Pl. & Olentangy Blvd.	346	at least once between	11/8	and	11/15	Olentangy River	Design Relief	OSIS
MH 200' w/o Rustic Pl. & Olentangy Blvd.	346	at least once between	11/22	and	11/29	Olentangy River	Design Relief	OSIS
MH alley e/o High & s/o Schreyer Pl.	349	at least once between	1/11	and	1/19	Adena Brook/Indian Spring Run	Design Relief	OSIS
MH alley e/o High & s/o Schreyer Pl.	349	at least once between	3/22	and	3/29	Adena Brook/Indian Spring Run	Design Relief	OSIS
MH alley e/o High & s/o Schreyer Pl.	349	at least once between	5/17	and	5/24	Adena Brook/Indian Spring Run	Design Relief	OSIS
MH alley e/o High & s/o Schreyer Pl.	349	at least once between	9/20	and	9/27	Adena Brook/Indian Spring Run	Design Relief	OSIS
MH Wetmore & alley e/o High St.	350	at least once between	12/27	and	1/4	ditch e/o Rustic Bridge & s/o Beechwold Blvd.	Design Relief	OSIS
MH Wetmore & alley e/o High St.	350	at least once between	1/11	and	1/19	ditch e/o Rustic Bridge & s/o Beechwold Blvd.	Design Relief	OSIS
MH Wetmore & alley e/o High St.	350	at least once between	2/1	and	2/8	ditch e/o Rustic Bridge & s/o Beechwold Blvd.	Design Relief	OSIS
MH Wetmore & alley e/o High St.	350	at least once between	5/18	and	5/24	ditch e/o Rustic Bridge & s/o Beechwold Blvd.	Design Relief	OSIS
MH r/o 4895 Olentangy Blvd., w/o Olentangy Blvd. & n/o Royal	351	at least once between	1/4	and	1/11	Olentangy River	Design Relief	OSIS
MH r/o 4895 Olentangy Blvd., w/o Olentangy Blvd. & n/o Royal	351	at least once between	8/23	and	8/30	Olentangy River	Design Relief	OSIS

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Location	Reference Number	Estimated Date and Time - if known				Receiving Water - if any	Component	Sub Basin	
MH n/s of Weisheimer & Starrett	352	at least once between	3/22	and	3/29	Olentangy River	Design Relief	OSIS	
MH n/s of Weisheimer & Starrett	352	at least once between	9/13	and	9/20	Olentangy River	Design Relief	OSIS	
MH n/s of Weisheimer & Starrett	352	at least once between	11/8	and	11/15	Olentangy River	Design Relief	OSIS	
MH n/s of Weisheimer & Starrett	352	at least once between	11/22	and	11/29	Olentangy River	Design Relief	OSIS	
MH Plum Ridge n/o Lornaberry	364	at least once between	3/23	and	3/30	ditch n/s Main & w/o McNaughten	Design Relief	Big Walnut	
MH Plum Ridge n/o Lornaberry	364	at least once between	11/9	and	11/16	ditch n/s Main & w/o McNaughten	Design Relief	Big Walnut	
MH Lexington & alley n/o Hudson	380	at least once between	12/27	and	1/3	Olentangy River	Design Relief	OSIS	
MH Lexington & alley n/o Hudson	380	at least once between	1/3	and	1/10	Olentangy River	Design Relief	OSIS	
MH Lexington & alley n/o Hudson	380	at least once between	1/10	and	1/18	Olentangy River	Design Relief	OSIS	
MH Lexington & alley n/o Hudson	380	at least once between	3/23	and	3/28	Olentangy River	Design Relief	OSIS	
MH Lexington & alley n/o Hudson	380	at least once between	3/30	and	4/4	Olentangy River	Design Relief	OSIS	
MH Lexington & alley n/o Hudson	380	at least once between	4/20	and	4/25	Olentangy River	Design Relief	OSIS	
MH Lexington & alley n/o Hudson	380	at least once between	5/18	and	5/23	Olentangy River	Design Relief	OSIS	
MH Lexington & alley n/o Hudson	380	at least once between	6/27	and	6/29	Olentangy River	Design Relief	OSIS	
MH f/o 2145 Winslow	532	at least once between	3/23	and	3/30	ditch n/o railroad tracks, e/o Alum Creek Drive	Design Relief	Alum Creek	
MH f/o 2145 Winslow	532	at least once between	4/20	and	4/27	ditch n/o railroad tracks, e/o Alum Creek Drive	Design Relief	Alum Creek	
MH f/o 2145 Winslow	532	at least once between	8/24	and	8/31	ditch n/o railroad tracks, e/o Alum Creek Drive	Design Relief	Alum Creek	
MH f/o 2145 Winslow	532	at least once between	9/21	and	9/28	ditch n/o railroad tracks, e/o Alum Creek Drive	Design Relief	Alum Creek	
MH f/o 320 Kanawha	576		1/3	9:45	to	1/4 0:30	Olentangy River	Design Relief	OSIS
MH f/o 320 Kanawha	576		1/5	3:15	to	1/6 13:45	Olentangy River	Design Relief	OSIS
MH f/o 320 Kanawha	576		1/11	14:30	to	1/12 7:00	Olentangy River	Design Relief	OSIS
MH f/o 320 Kanawha	576		1/13	22:00	to	1/13 22:45	Olentangy River	Design Relief	OSIS
MH S.R. 315 N.B. off ramp to Henderson	873	at least once between	1/4	and	1/11	Olentangy River	Design Relief	OSIS	
MH S.R. 315 N.B. off ramp to Henderson	873	at least once between	5/17	and	5/24	Olentangy River	Design Relief	OSIS	
MH California & High	898	at least once between	1/11	and	1/19	Olentangy River	Design Relief	OSIS	
MH California & High	898	at least once between	5/17	and	5/24	Olentangy River	Design Relief	OSIS	
MH California & High	898	at least once between	6/28	and	7/6	Olentangy River	Design Relief	OSIS	
MH California & High	898	at least once between	9/20	and	9/27	Olentangy River	Design Relief	OSIS	
MH in North Star, n/o Presidential	915	at least once between	9/22	and	9/29	ditch n/o Chambers, e/o Northwest Blvd.	Design Relief	OSIS	
Berliner Park	0019s0159	various dates between	1/3	and	1/14	Berliner Park	manhole	OSIS	
2120 East Fifth Avenue	0031s0076	observed	1/5			Alum Creek	manhole	Alum Creek	
northbound ramp to I71 From SR 104	0040s0020	various dates between	1/3	and	1/14	unnamed ditch	manhole	OSIS	
2820 Watkins Road	0101s0020	discovered	2/22			Alum Creek	manhole	Alum Creek	
2583 Baughman Avenue	0130s0292	observed	1/3			Alum Creek	manhole	Alum Creek	
3390 Homestead Drive	0178s0209	observed	1/7			Alum Creek	manhole	OSIS	
4385 Olentangy River Road	0232s0104	at twice once between	1/3	and	1/14	Olentangy River	manhole	OSIS	
4385 Olentangy River Road	0232s0104	resident observed	5/19			Olentangy River	manhole	OSIS	
285 Croswell Road	0232s0150	observed	1/8			Olentangy River	manhole	OSIS	
4075 North High Street	0232s0174	observed	1/5			Olentangy River	manhole	OSIS	
Fenway Road and Fenway Court	0370s0324	observed	1/5	and	1/12	Olentangy River	manhole	OSIS	
Berliner Park	two	various dates between	1/3	and	1/14	Berliner Park	manhole	OSIS	

## Appendix C

### Monthly Rainfall Data

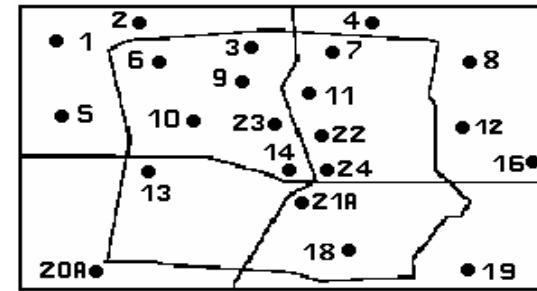


RAIN GAUGE SUMMARY FOR MONTH OF:

JANUARY 2005

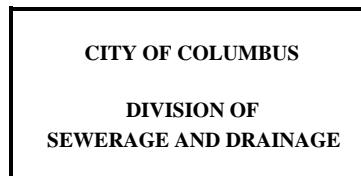
PREPARED BY: Initials    ON: DATE:  
ECS

Note: \* - indicates invalid data not included in averages or totals



RAIN GAUGE LOCATION

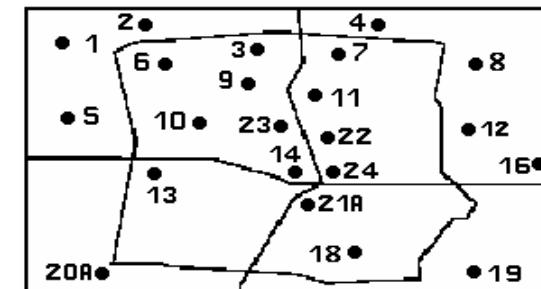
RG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL	
1	0.01	0.20	2.03	0.30	2.99	0.58	0.00	0.45	0.00	0.00	2.42	0.23	0.97	0.00	0.00	0.00	0.09	0.00	0.00	0.06	0.00	0.00	0.00	*	*	*	*	*	*	*	*		
2	0.01	0.20	1.69	0.26	2.29	0.47	0.00	0.36	0.00	0.00	1.95	0.26	0.71	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.08	0.00	0.00	0.02	0.19	0.00	0.00	0.00	0.02	0.14	0.00	8.67	
3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
4	0.02	0.20	1.65	0.24	2.31	0.46	0.01	0.42	0.00	0.00	1.85	0.18	0.74	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.09	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.01	0.19	0.00	8.53	
5	0.03	0.15	1.59	0.23	2.59	0.49	0.00	0.39	0.00	0.00	2.33	0.06	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.17	0.00	0.00	0.00	0.00	0.16	0.00	9.01	
6	0.01	0.14	1.59	0.15	2.24	0.44	0.00	0.37	0.00	0.00	1.69	0.14	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.24	0.07	0.00	0.00	0.00	0.13	0.01	8.07	
7	0.03	0.15	1.69	0.24	2.40	0.49	0.00	0.46	0.00	0.00	1.76	0.00	0.73	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.06	0.00	0.01	0.03	0.22	0.00	0.00	0.00	0.02	0.17	0.00	8.48	
8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
9	0.03	0.13	1.77	0.28	2.28	0.52	0.01	0.49	0.00	0.00	1.78	0.07	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.01	0.20	0.00	8.54	
10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
11	0.05	0.10	1.59	0.19	2.34	0.60	0.00	0.37	0.00	0.00	1.83	0.01	0.79	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.05	0.00	0.00	0.01	0.28	0.00	0.00	0.00	0.02	0.28	0.00	8.53	
12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
13	0.04	0.06	1.24	0.27	2.27	0.56	0.00	0.46	0.00	0.00	2.05	0.01	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.21	0.00	7.98	
14	0.02	0.05	1.90	0.23	2.13	0.57	0.01	0.36	0.00	0.00	2.37	0.01	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.16	0.01	0.00	0.00	0.01	0.25	0.00	8.87	
16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
18	0.05	0.04	1.90	0.18	1.98	0.63	0.00	0.35	0.00	0.00	2.17	0.01	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.01	0.12	0.00	0.00	0.00	0.00	0.01	0.21	0.00	8.45
19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
20A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
21A	0.06	0.03	1.73	0.31	2.45	0.61	0.00	0.31	0.00	0.00	2.06	0.01	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.01	0.25	0.00	0.00	0.00	0.01	0.20	0.00	8.71	
22	0.03	0.08	1.71	0.24	2.36	0.62	0.00	0.00	0.00	0.00	2.34	0.01	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.01	0.16	0.00	0.00	0.01	0.26	0.00	8.63		
23	0.01	0.08	1.53	0.23	2.48	0.62	0.00	0.00	0.00	0.00	2.57	0.01	0.72	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.09	0.16	0.00	8.71		
24	0.03	0.07	1.98	0.27	2.25	0.63	0.00	0.00	0.00	0.00	2.65	0.02	0.78	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.07	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.03	0.26	0.00	9.35	
25	0.05	0.06	1.94	0.31	2.48	0.67	0.01	0.43	0.00	0.00	2.14	0.02	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.01	0.27	0.00	9.37		
26	0.01	0.14	1.95	0.33	2.53	0.61	0.01	0.45	0.00	0.00	1.74	0.02	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.26	0.00	9.38		
AVG.	0.03	0.11	1.73	0.25	2.37	0.56	0.00	0.33	0.00	0.00	2.10	0.06	0.77	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.05	0.00	0.00	0.01	0.19	0.01	0.00	0.00	0.01	0.20	0.01	8.71	



RAIN GAUGE SUMMARY FOR MONTH OF: **FEBRUARY 2005**

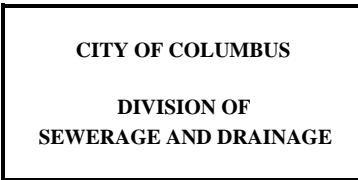
PREPARED BY: Initials **ECS** ON: DATE: **3/11/2005**  
7-Mar

Note: \* - indicates invalid data not included in averages or totals



RAIN GAUGE LOCATION

RG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	TOTAL		
1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
2	0.00	0.00	0.04	0.00	0.00	0.00	0.14	0.30	0.05	0.00	0.00	0.01	0.03	0.15	0.00	0.10	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.05	0.00	0.00	0.42	1.46			
3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
4	0.00	0.01	0.04	0.00	0.00	0.01	0.15	0.28	0.05	0.00	0.01	0.00	0.00	0.00	0.00	0.09	0.04	0.00	0.00	0.17	0.01	0.00	0.00	0.06	0.00	0.00	0.36	1.28			
5	0.00	0.00	0.06	0.00	0.01	0.00	0.12	0.28	0.04	0.00	0.01	0.00	0.00	0.00	0.01	0.14	0.00	0.00	0.00	0.19	0.01	0.00	0.00	0.04	0.00	0.00	0.29	1.20			
6	0.00	0.00	0.05	0.00	0.00	0.09	0.29	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.03	0.00	0.00	0.15	0.01	0.00	0.00	0.06	0.00	0.00	0.37	1.22			
7	0.00	0.00	0.04	0.00	0.00	0.14	0.26	0.04	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.10	0.01	0.00	0.00	0.18	0.01	0.00	0.00	0.06	0.02	0.00	0.00	0.35	1.23		
8	0.00	0.01	0.04	0.00	0.00	0.00	0.10	0.10	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.03	0.02	0.00	0.00	0.09	0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.18	0.65		
9	0.00	0.00	0.05	0.00	0.00	0.00	0.21	0.27	0.03	0.00	0.00	0.01	0.00	0.00	0.00	0.12	0.02	0.00	0.00	0.21	0.01	0.00	0.00	0.03	0.01	0.00	0.00	0.42	1.39		
10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
11	0.00	0.00	0.04	0.00	0.00	0.00	0.12	0.28	0.03	0.00	0.00	0.01	0.00	0.00	0.00	0.07	0.01	0.00	0.00	0.21	0.01	0.00	0.00	0.04	0.02	0.00	0.00	0.37	1.21		
12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
13	0.00	0.00	0.08	0.00	0.00	0.00	0.14	0.26	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.20	0.01	0.00	0.00	0.05	0.00	0.00	0.00	0.34	1.21		
14	0.00	0.00	0.03	0.00	0.00	0.00	0.13	0.27	0.02	0.00	0.00	0.02	0.00	0.00	*	*	*	*	*	*	*	*	*	*	*	*	*				
16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
18	0.00	0.01	0.05	0.00	0.00	0.00	0.10	0.32	0.08	0.00	0.00	0.01	0.00	0.00	0.00	0.12	0.01	0.00	0.00	0.33	0.01	0.00	0.00	0.01	0.03	0.00	0.00	0.42	1.50		
19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
20A	0.00	0.00	0.04	0.00	0.00	0.00	0.13	0.29	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.03	0.03	0.00	0.00	0.38	1.32		
21A	0.00	0.01	0.05	0.00	0.00	0.00	0.11	0.29	0.04	0.01	0.01	0.01	0.01	0.19	0.00	0.09	0.02	0.00	0.00	0.30	0.00	0.00	0.00	0.01	0.07	0.00	0.00	0.47	1.69		
22	0.00	0.00	0.05	0.00	0.00	0.00	0.14	0.29	0.02	0.00	0.00	0.02	0.03	0.16	0.00	0.07	0.02	0.00	0.00	0.24	0.00	0.00	0.00	0.03	0.02	0.00	0.00	0.42	1.51		
23	0.00	0.00	0.04	0.00	0.00	0.00	0.09	0.26	0.02	0.00	0.01	0.00	0.01	0.17	0.00	0.07	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.45	1.35		
24	0.00	0.01	0.06	0.00	0.00	0.01	0.13	0.30	0.04	0.02	0.00	0.00	0.03	0.17	0.00	0.11	0.01	0.00	0.00	0.24	0.00	0.00	0.00	0.05	0.06	0.00	0.00	0.43	1.67		
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.00	0.13	0.00	0.00	0.00	0.29	0.01	0.00	0.00	0.06	0.00	0.00	0.06	0.00	0.45	*
26	0.00	0.00	0.09	0.00	0.00	0.00	0.14	0.32	0.03	0.00	0.00	0.03	0.02	0.20	0.00	0.11	0.00	0.00	0.00	0.24	0.04	0.00	0.00	0.01	0.02	0.00	0.00	0.39	1.64		
AVG.	0.00	0.00	0.05	0.00	0.00	0.00	0.13	0.27	0.03	0.00	0.00	0.01	0.01	0.06	0.00	0.10	0.01	0.00	0.00	0.22	0.01	0.00	0.00	0.03	0.02	0.00	0.00	0.38	1.35		

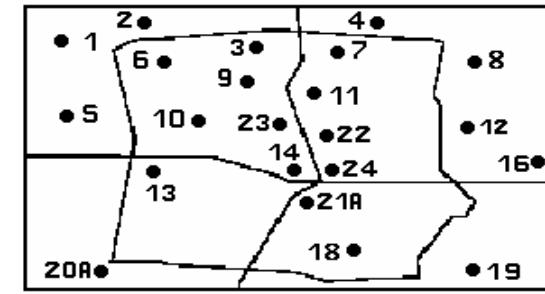


### RAIN GAUGE SUMMARY FOR MONTH OF:

MARCH 2005

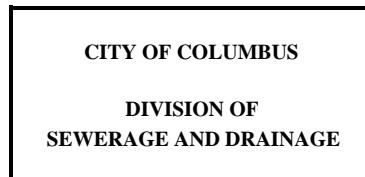
PREPARED BY: Initials    ON: DATE:  
ECS

Note: \* - indicates invalid data not included in averages or totals



RAIN GAUGE LOCATION

RG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
2	0.00	0.04	0.02	0.01	0.12	0.00	0.03	0.00	0.01	0.00	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.07	0.44	0.00	0.41	0.00	0.00	0.88	0.00	0.00	2.42		
3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
4	0.00	0.02	0.00	0.04	0.08	0.00	0.01	0.00	0.00	0.00	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.09	0.48	0.00	0.39	0.00	0.00	0.81	0.00	0.00	2.41		
5	0.00	0.01	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.02	0.05	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.12	0.55	0.00	0.54	0.01	0.01	1.25	0.00	0.00	3.12		
6	0.00	0.04	0.00	0.00	0.15	0.00	0.01	0.00	0.01	0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.01	0.05	0.49	0.00	0.44	0.01	0.00	0.89	0.00	0.00	2.49		
7	0.00	0.04	0.03	0.01	0.09	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.10	0.52	0.00	0.44	0.00	0.00	1.01	0.00	0.00	2.67		
8	0.00	0.01	0.00	0.01	0.08	0.01	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	*	*	*	0.08	0.36	0.00	0.36	0.00	0.00	0.94	0.00	0.00	*		
9	0.00	0.01	0.00	0.00	0.16	0.00	0.00	0.00	0.02	0.00	0.02	0.07	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.12	0.55	0.00	0.55	0.01	0.00	1.10	0.00	0.00	3.01		
10	0.00	0.00	0.00	0.00	0.04	0.00	0.04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
11	0.00	0.01	0.01	0.00	0.14	0.00	0.00	0.00	0.00	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.12	0.49	0.00	0.46	0.01	0.01	1.33	0.00	0.00	2.99		
12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
13	0.00	0.00	0.00	0.00	0.26	0.00	0.04	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.12	0.59	0.00	0.51	0.00	0.01	1.33	0.00	0.00	3.23		
14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
18	0.00	0.00	0.00	0.00	0.22	0.00	0.09	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.03	0.34	0.00	0.46	0.00	0.00	0.76	0.00	0.00	2.47		
19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
20A	0.00	0.00	0.00	0.00	0.29	0.00	0.04	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.09	0.40	0.00	0.48	0.01	0.00	1.43	0.00	0.00	3.18		
21A	0.00	0.01	0.01	0.00	0.23	0.00	0.04	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.10	0.44	0.00	0.54	0.01	0.00	1.57	0.00	0.00	3.37		
22	0.00	0.01	0.01	0.00	0.16	0.00	0.02	0.00	0.00	0.00	0.01	0.07	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.11	0.43	0.00	0.49	0.02	0.01	1.43	0.00	0.00	3.16		
23	0.00	0.00	0.00	0.02	0.12	0.00	0.01	0.00	0.00	0.01	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.06	0.44	0.00	0.46	0.00	0.00	1.38	0.00	0.00	2.89		
24	0.00	0.01	0.00	0.01	0.17	0.01	0.03	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.13	0.40	0.00	0.54	0.02	0.00	1.45	0.00	0.00	3.22		
25	0.00	0.01	0.00	0.01	0.27	0.00	0.06	0.00	0.00	0.00	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.09	0.46	0.00	0.00	0.55	0.00	1.54	0.00	0.00	*		
26	0.00	0.00	0.01	0.03	0.06	0.00	0.02	0.00	0.00	0.00	0.06	0.05	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.12	0.37	0.00	0.40	0.00	0.00	1.23	0.00	0.00	2.65		
AVG.	0.00	0.01	0.01	0.01	0.16	0.00	0.02	0.00	0.00	0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.09	0.46	0.00	0.44	0.04	0.00	1.20	0.00	0.00	2.89		

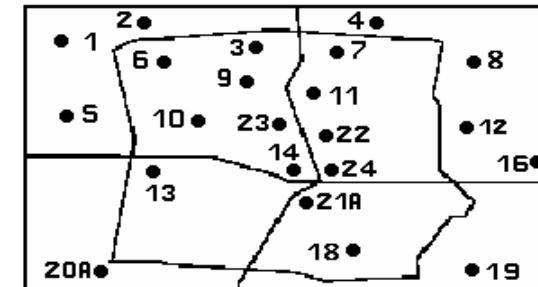


**RAIN GAUGE SUMMARY FOR MONTH OF:**

**APRIL 2005**

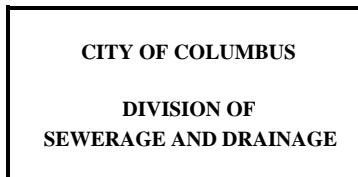
PREPARED BY: Initials    ON: DATE: may10,2005  
                      ECS

Note: \* - indicates invalid data not included in averages or totals



RAIN GAUGE LOCATION

RG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL	
1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
2	0.21	0.91	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.40	0.24	0.65	1.11	0.35	0.00	0.44	0.00	0.00	0.07	0.08	4.65		
3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
4	0.18	0.79	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.11	0.00	0.22	0.28	0.50	1.11	0.40	0.00	0.41	0.00	0.00	0.14	0.36			
5	0.26	0.97	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.06	0.00	0.70	0.20	0.83	1.23	0.35	0.00	0.43	0.01	0.00	0.00	0.15	5.48		
6	0.15	0.92	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.08	0.00	0.46	0.20	0.64	1.12	0.39	0.00	0.46	0.00	0.00	0.04	0.10	4.77		
7	0.21	1.07	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.41	0.22	0.54	1.20	0.39	0.00	0.40	0.00	0.00	0.00	0.16	4.79		
8	0.18	0.66	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.35	0.18	0.44	0.89	0.27	0.00	0.32	0.00	0.00	0.00	0.08	3.59		
9	0.27	1.09	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.01	0.00	0.44	0.18	0.69	1.05	0.45	0.00	0.44	0.00	0.00	0.00	0.14	5.03		
10	0.03	*	*	*	*	*	*	*	*	0.00	0.00	0.00	0.04	0.00	0.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
11	0.24	0.86	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.39	0.23	0.56	1.07	0.46	0.00	0.44	0.00	0.00	0.00	0.23	4.72		
12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
13	0.28	1.02	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.57	0.14	0.91	1.15	0.34	0.00	0.43	0.00	0.00	0.00	0.17	5.30
14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
18	0.22	0.65	0.00	0.00	0.00	0.00	0.14	0.00					0.01			0.00	0.00	0.04	0.00	0.42	0.14	0.68	1.01	0.37	0.00	0.36	0.00	0.00	0.04	0.14	*	
19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
20A	0.30	0.73	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.29	0.01	0.85	1.05	0.20	0.00	0.49	0.00	0.00	0.00	0.21	4.32		
21A	0.29	0.63	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.06	0.00	0.36	0.23	0.82	1.01	0.43	0.00	0.40	0.00	0.00	0.03	0.19	4.63		
22	0.25	0.89	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.09	0.00	0.51	0.20	0.61	1.16	0.46	0.00	0.43	0.00	0.00	0.02	0.20	5.00		
23	0.26	0.98	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.11	0.00	0.54	0.23	0.63	1.05	0.40	0.00	0.47	0.00	0.00	0.02	0.16	5.01		
24	0.29	0.99	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.04	0.00	0.50	0.22	0.74	1.14	0.42	0.00	0.44	0.00	0.00	0.02	0.23	5.26		
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
26	0.23	1.53	0.00	0.00	0.00	0.00	0.11	0.01	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.04	0.00	0.41	0.23	0.51	1.29	0.27	0.16	0.41	0.00	0.00	0.01	0.18	5.53		
AVG.	0.23	0.92	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.04	0.00	0.44	0.20	0.66	1.10	0.37	0.01	0.42	0.00	0.00	0.02	0.16	4.83		

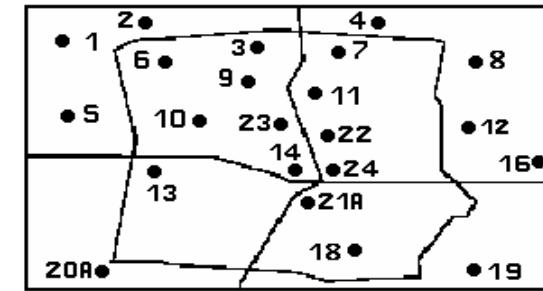


### RAIN GAUGE SUMMARY FOR MONTH OF:

MAY 2005

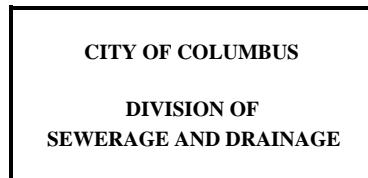
PREPARED BY: Initials    ON: DATE:  
ECS                      9-Jun

Note: \* - indicates invalid data not included in averages or totals



RAIN GAUGE LOCATION

RG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.00	0.00	0.02	0.00	0.06	0.00	0.00	0.08	0.34	0.00	0.31	0.00	*	
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.00	0.01	0.46	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.07	0.05	0.02	0.00	0.00	0.10	0.28	0.00	0.09	0.01	1.62	
3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.14	0.00	0.04	0.45	0.00	0.00	0.00	0.00	0.41	0.02	0.01	0.04	0.15	0.01	0.00	0.00	0.08	0.25	0.01	0.07	0.01	1.77	
5	0.01	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.40	0.00	0.06	0.62	0.00	0.00	0.00	0.00	0.64	0.01	0.01	0.06	0.01	0.02	0.00	0.00	0.03	0.14	0.01	0.00	0.01	2.07	
6	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.12	0.01	0.01	0.60	0.00	0.00	0.00	0.00	0.51	0.01	0.00	0.06	0.00	0.02	0.00	0.00	0.10	0.48	0.01	0.13	0.01	2.09	
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.14	0.00	0.12	0.50	0.00	0.00	0.00	0.00	0.40	0.01	0.00	0.04	0.15	0.01	0.00	0.00	0.11	0.51	0.00	0.19	0.00	2.26	
8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
9	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.18	0.00	0.04	0.96	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.06	0.01	0.00	0.00	0.00	0.03	0.58	0.00	0.06	0.01	2.55	
10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
11	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.06	0.31	0.00	0.03	0.59	0.00	0.00	0.00	0.00	0.52	*	*	*	*	*	*	*	*	*	*	*			
12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
13	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.03	0.65	0.00	0.04	1.08	0.00	0.00	0.00	0.00	0.62	0.01	0.00	0.06	0.00	0.02	0.00	0.00	0.00	0.13	0.01	0.12	0.01	2.81	
14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
18	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.06	0.43	0.00	0.08	0.69	0.00	0.00	0.00	0.00	0.54	0.01	0.00	0.04	0.02	0.00	0.00	0.00	0.00	0.27	0.00	0.04	0.00	2.20	
19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
20A	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.01	0.30	0.01	0.03	0.54	0.00	0.00	0.00	0.00	0.64	0.01	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.18	0.01	0.07	0.01	1.88	
21A	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.06	0.33	0.01	0.03	0.64	0.01	0.00	0.00	0.00	0.99	0.01	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.01	0.00	2.41	
22	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.06	0.32	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.03	0.15	0.00	0.11	0.00	1.26	
23	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.27	0.00	0.00	0.66	0.00	0.00	0.00	0.00	1.81	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02	0.11	0.00	0.01	0.00	2.93	
24	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.06	0.36	0.01	0.04	0.58	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.02	0.02	0.00	0.00	0.05	0.21	0.01	0.16	0.02	1.62	
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.11	0.75	0.00	0.00	0.00	0.00	0.40	0.07	0.00	0.01	0.19	0.00	0.00	0.00	0.09	0.52	0.00	0.14	0.01	2.50	
AVG.	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.04	0.28	0.00	0.04	0.64	0.00	0.00	0.00	0.00	0.57	0.01	0.00	0.04	0.04	0.01	0.00	0.00	0.05	0.29	0.00	0.10	0.01	2.14	

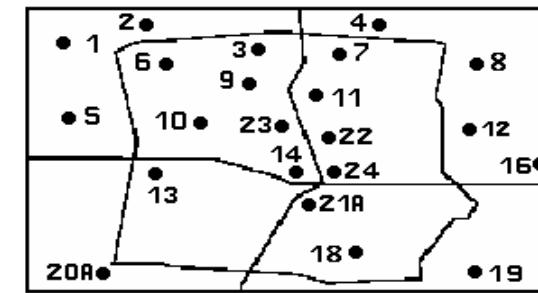


RAIN GAUGE SUMMARY FOR MONTH OF:

JUNE 2005

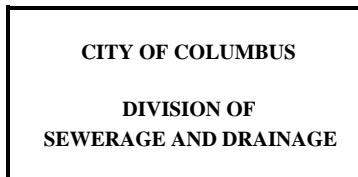
PREPARED BY: Initials    ON: DATE:  
ECS                      12-Jul

Note: \* - indicates invalid data not included in averages or totals



RAIN GAUGE LOCATION

RG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL				
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.22	0.27	1.31	1.91					
2	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.08	0.00	0.02	0.02	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	1.41	0.00	1.40	3.17				
3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
4	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.04	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.01	0.45	0.34	1.08	2.25				
5	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.05	0.02	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.23	0.65	0.08	0.70	1.86					
6	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.10	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.76	0.01	0.97	2.89				
7	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.05	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.72	0.42	1.30	2.81				
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*				
9	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.01	0.00	1.21	0.22	1.71	4.42			
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.03	*				
11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.74	0.01	0.00	1.02	0.45	1.24	*
12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.10	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.26	0.92	1.79				
14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
18	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.45	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.08	0.03	0.00	1.41	3.20					
19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
20A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.01	0.12	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.55	0.04	0.54	2.11					
21A	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.06	0.05	0.49	0.24	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.19	0.00	0.21	0.14	0.09	1.50					
22	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.25	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.42	0.00	0.08	0.20	0.06	1.35	4.46				
23	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.13	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.05	0.23	0.00	1.87	2.55				
24	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.23	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.01	0.00	0.19	0.55	1.29	3.02				
25	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.17	0.01	0.70	0.13	0.02	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.01	0.00	0.07	0.03	0.64	2.21				
26	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.04	0.00	0.02	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.08	0.15	1.20	1.54					
AVG.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.01	0.15	0.03	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.01	0.02	0.44	0.16	1.01	2.61				

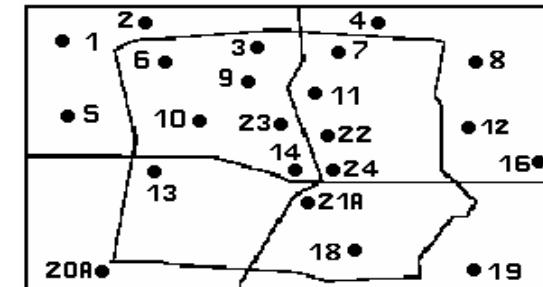


### RAIN GAUGE SUMMARY FOR MONTH OF:

**JULY 2005**

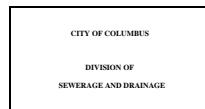
PREPARED BY: Initials    ON: DATE:    8/9/2005  
ECS

Note: \* - indicates invalid data not included in averages or totals



RAIN GAUGE LOCATION

RG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
1	0.04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
2	0.07	0.00	0.00	0.00	0.49	0.00	0.00	0.29	0.01	0.00	0.00	0.00	0.14	0.19	0.01	2.10	0.00	0.21	0.02	0.00	0.43	0.00	0.00	0.00	0.32	0.00	0.16	0.00	0.00	0.00	4.44	
3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
4	0.05	0.00	0.00	0.00	0.46	0.03	0.00	0.18	0.01	0.01	0.00	0.00	0.12	0.02	0.06	1.46	0.00	0.42	0.00	0.00	0.41	0.00	0.00	0.00	0.55	0.00	0.18	0.00	0.00	0.00	3.96	
5	0.12	0.00	0.00	0.00	0.22	0.00	0.00	0.29	0.01	0.00	0.00	0.02	0.29	0.04	0.11	1.27	0.00	0.32	0.02	0.00	0.02	0.00	0.00	0.00	0.06	0.00	0.22	0.00	0.00	0.00	3.01	
6	0.05	0.00	0.00	0.00	0.43	0.00	0.00	0.02	0.00	0.00	0.00	0.10	0.19	0.00	0.05	1.39	0.00	0.21	0.01	0.00	0.34	0.00	0.00	0.00	0.04	0.00	0.13	0.00	0.00	0.00	2.96	
7	0.06	0.00	0.00	0.00	0.42	0.00	0.00	0.22	0.01	0.00	0.00	0.00	0.10	0.04	0.00	1.27	0.00	0.32	0.01	0.00	0.36	0.00	0.00	0.00	0.13	0.00	0.15	0.00	0.00	0.00	3.09	
8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
9	0.17	0.00	0.00	0.00	0.68	0.00	0.00	0.01	0.01	0.00	0.00	0.06	0.16	0.03	0.00	0.90	0.00	0.16	0.02	0.00	0.16	0.00	0.00	0.00	0.19	0.00	0.17	0.00	0.00	0.00	2.72	
10	0.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
11	0.22	0.00	0.00	0.00	0.66	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.13	0.02	0.01	0.39	0.00	0.17	0.00	0.00	0.13	0.00	0.00	0.00	0.04	0.00	0.18	0.00	0.00	0.00	1.99	
12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
13	0.06	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.57	0.01	0.06	0.76	0.00	0.14	0.02	0.00	0.06	0.01	0.00	0.00	0.16	0.00	0.25	0.00	0.00	0.00	2.34	
14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
16	0.14	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.02	0.01	0.12	0.10	0.07	0.03	0.00	0.17	0.11	0.00	0.00	0.10	0.00	0.10	0.00	0.00	0.00	1.25	
18	0.13	0.00	0.00	0.00	0.17	0.00	0.88	0.00	0.00	0.00	0.00	0.07	0.52	0.00	0.00	0.12	0.00	0.09	0.09	0.01	0.15	0.01	0.00	0.00	0.31	0.15	0.00	0.00	0.00	0.00	2.70	
19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
20A	0.17	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.29	0.00	0.07	0.09	0.43	0.00	0.01	0.00	0.00	0.22	0.00	0.27	0.00	0.00	0.00	1.88	
21A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
22	0.13	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.33	0.01	0.05	0.28	0.00	0.22	0.01	0.00	0.05	0.01	0.00	0.00	0.10	0.00	0.20	0.00	0.00	0.00	1.89	
23	0.13	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.56	0.00	0.00	0.45	0.00	0.32	0.01	0.00	0.01	0.03	0.00	0.00	0.07	0.00	0.18	0.00	0.00	0.00	2.06	
24	0.13	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.29	0.02	0.00	0.29	0.07	0.35	0.04	0.00	0.10	0.08	0.00	0.00	0.37	0.00	0.20	0.00	0.00	0.00	2.47	
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
26	0.07	0.00	0.00	0.00	0.30	0.00	0.00	0.20	0.01	0.00	0.00	0.00	0.16	0.04	0.00	0.42	0.00	0.28	0.00	0.00	0.57	0.00	0.00	0.00	0.42	0.00	0.12	0.00	0.00	0.00	2.59	
AVG.	0.10	0.00	0.00	0.00	0.36	0.00	0.06	0.08	0.00	0.00	0.00	0.03	0.26	0.03	0.02	0.77	0.01	0.22	0.02	0.03	0.20	0.02	0.00	0.00	0.21	0.01	0.17	0.00	0.00	0.00	2.62	

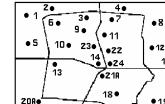


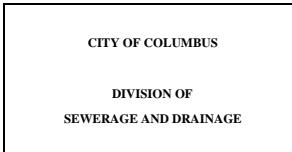
**RAIN GAUGE SUMMARY FOR MONTH OF**

AUGUST 2005

**PREPARED BY:** Initials  
ECS

Note: \* - indicates invalid data not included in averages or total

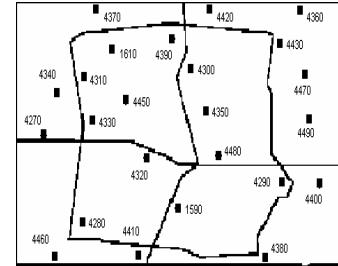
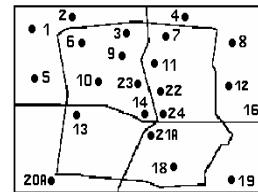




RAIN GAUGE SUMMARY FOR MONTH OF: SEPTEMBER 2005

PREPARED BY: Initials  
ECS

Note: \* - indicates invalid data not included in averages or totals



RAIN GAUGE LOCATION

RG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.12	0.01	0.00	0.36	0.51	0.07	0.75	0.00	0.00	0.25	0.00	2.11	
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.00	0.00	0.02	0.10	0.00	0.00	0.30	0.42	0.05	0.73	0.00	0.00	0.27	0.00	2.80
3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.35	0.05	0.88	0.01	0.00	0.40	0.00	2.30
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.04	0.12	0.02	0.00	0.13	2.03	0.06	0.68	0.00	0.01	0.31	0.00	4.48
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.01	0.06	0.00	0.00	0.14	0.28	0.03	0.46	0.00	0.00	0.20	0.00	1.78
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.08	0.01	0.00	0.39	0.36	0.03	0.78	0.00	0.00	0.38	0.00	2.94
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.10	0.01	0.00	0.42	0.37	0.02	0.95	0.00	0.00	0.41	0.00	2.30
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.03	0.11	0.01	0.00	0.14	0.84	0.04	0.70	0.00	0.00	0.42	0.00	3.17
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.05	0.12	0.00	0.00	0.09	1.36	0.04	0.70	0.00	0.00	0.33	0.00	2.81
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.15	0.01	0.00	0.14	1.11	0.01	0.75	0.00	0.00	0.32	0.00	3.00
12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
13	0.11	0.29	0.09	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.01	0.01	0.00	0.06	0.00	0.01	1.52	0.04	0.48	0.00	0.00	0.38	0.00	3.13
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.97	0.01	0.83	0.00	0.00	0.26	0.00	2.25
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.26	0.00	0.00	0.36	0.58	0.00	0.87	0.00	0.00	0.34	0.00	2.98
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.26	0.01	0.00	0.23	1.50	0.00	0.73	0.00	0.00	0.28	0.00	3.39
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.02	0.00	0.29	1.23	0.00	0.70	0.00	0.00	0.40	0.00	2.96
20A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.08	0.26	0.01	0.00	0.08	1.28	0.03	0.68	0.00	0.00	0.23	0.00	2.90
21A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.25	0.01	0.00	0.24	1.32	0.00	0.83	0.00	0.00	0.30	0.00	3.46
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.18	0.00	0.00	0.08	0.91	0.01	0.77	0.00	0.00	0.26	0.00	2.81
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.01	0.12	0.00	0.00	0.05	0.86	0.01	0.57	0.00	0.00	0.25	0.00	2.22
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.23	0.01	0.00	0.08	1.10	0.01	0.81	0.00	0.00	0.32	0.00	3.29
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.01	0.00	0.38	0.32	0.01	1.13	0.00	0.00	0.44	0.00	2.41	
1300	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
1540	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.04	0.00	0.00	0.47	0.12	0.00	0.04	0.08	0.00	0.00	1.85	
1550	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.08	0.00	0.00	1.26	0.32	0.08	0.91	0.00	0.00	0.16	0.00	3.50
1580	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.08	0.00	0.00	1.97	0.43	0.08	0.79	0.00	0.00	0.24	0.00	4.53
1590	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.24	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	1.38	
1610	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.04	0.08	0.04	0.00	0.16	0.43	0.04	1.02	0.00	0.00	0.28	0.00	3.15
1690	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
4270	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.20	0.00	0.00	0.04	1.38	0.00	0.63	0.00	0.00	0.39	0.00	3.86			
4280	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.08	0.28	0.00	0.00	0.04	0.67	0.00	0.67	0.00	0.00	0.32	0.00	2.36
4290	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.20	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.43	
4300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.08	0.00	0.00	0.24	0.43	0.04	0.75	0.00	0.00	0.35	0.00	2.87
4310	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.08	0.00	0.00	0.24	0.43	0.04	0.4	0.00	0.00	0.20	0.00	2.05
4320	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.20	0.04	0.00	0.04	1.77	0.00	0.75	0.00	0.00	0.24	0.00	3.50
4330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.12	0.20	0.00	0.00	0.04	1.18	0.00	0.67	0.00	0.00	0.35	0.00	3.23
4																															

4390	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.43	0.08	0.87	0.00	0.00	0.35	0.00	3.03				
4400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	1.18	0.00	0.83	0.00	0.00	0.32	0.00	3.43				
4410	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.04	1.50	0.00	0.71	0.00	0.00	0.32	0.00	3.07		
4420	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.35	0.04	0.83	0.00	0.00	0.35	0.00	2.99				
4430	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.43	0.00	0.91	0.00	0.00	0.35	0.00	2.72				
4440	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.39	0.08	0.79	0.00	0.00	0.24	0.00	3.50				
4450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.12	0.00	0.00	0.08	1.38	0.04	0.75	0.00	0.00	0.35	0.00	3.74
4460	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.08	1.42	0.00	0.59	0.00	0.00	0.32	0.00	2.87
4470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.16	0.43	0.00	0.00	0.00	0.32	0.00	2.05		
4480	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.04	0.95	0.00	0.00	0.75	0.00	0.00	0.28	0.00	2.76
4490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.43	0.00	0.95	0.00	0.00	0.32	0.00	2.80				
<b>AVG.</b>	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.15	0.01	0.00	0.28	0.82	0.02	0.69	0.00	0.00	0.29	0.00	2.88
	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49				
<b>RG</b>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	<b>TOTAL</b>		

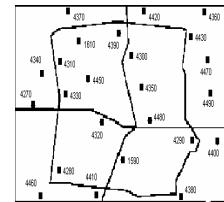
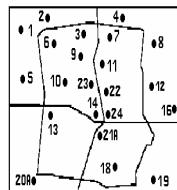
CITY OF COLUMBUS  
DIVISION OF  
SEWERAGE AND DRAINAGE

RAIN GAUGE SUMMARY FOR MONTH OF: OCTOBER 2005

PREPARED BY: Initials

ECS

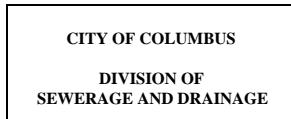
Note: \* - indicates invalid data not included in averages or totals



RAIN GAUGE LOCATION

RG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
1	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.45	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.18		
2	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.36	0.12	0.00	0.23	0.19	0.00	0.00	0.00	0.00	0.00	1.42		
3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
4	0.01	0.00	0.00	0.01	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.23	0.29	0.08	0.03	0.24	0.20	0.00	0.00	0.00	0.00	0.00	1.29		
5	0.00	0.00	0.00	0.00	0.01	0.01	0.17	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.38	0.13	0.00	0.17	0.23	0.00	0.00	0.00	0.00	0.00	1.79		
6	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.21	0.08	0.00	0.09	0.12	0.00	0.00	0.00	0.01	0.00	0.86		
7	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.28	0.08	0.02	0.22	0.21	0.00	0.01	0.00	0.00	0.00	1.37		
8	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.33	0.08	0.03	0.15	0.23	0.00	0.01	0.00	0.00	0.00	1.47		
9	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.38	0.11	0.01	0.21	0.20	0.00	0.01	0.00	0.01	0.00	1.93		
10	0.00	0.00	0.00	0.00	0.07	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.44	0.08	0.01	0.14	0.17	0.00	0.00	0.00	0.01	0.00	1.47		
11	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.42	0.10	0.01	0.17	0.26	0.00	0.00	0.00	0.00	0.01	1.23		
12	0.00	0.00	0.00	0.00	0.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
13	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.07	0.63	0.12	0.01	0.17	0.25	0.00	0.00	0.00	0.00	0.00	1.43			
14	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.46	0.08	0.01	0.06	0.20	0.00	0.00	0.00	0.00	0.00	1.13			
16	0.00	0.00	0.00	0.00	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.97	0.13	0.00	0.10	0.26	0.00	0.00	0.00	0.00	0.00	1.66			
18	0.00	0.00	0.00	0.00	0.01	0.01	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.66	0.09	0.04	0.02	0.28	0.00	0.00	0.00	0.00	0.00	1.51			
19	0.00	0.00	0.00	0.01	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.13	0.85	0.14	0.02	0.07	0.25	0.00	0.00	0.00	0.00	0.00	1.75			
20A	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.82	0.09	0.02	0.13	0.24	0.00	0.00	0.00	0.00	0.00	1.57			
21A	0.00	0.00	0.00	0.00	0.00	0.31	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.63	0.10	0.03	0.08	0.24	0.00	0.00	0.00	0.00	0.00	1.58			
22	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.55	0.08	0.01	0.08	0.27	0.00	0.00	0.00	0.00	0.00	1.46			
23	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.41	0.09	0.00	0.09	0.15	0.00	0.00	0.00	0.00	0.00	1.11			
24	0.00	0.00	0.00	0.00	0.00	0.34	0.10	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.55	0.09	0.02	0.06	0.32	0.00	0.00	0.00	0.01	0.00	1.62			
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
26	0.00	0.00	0.00	0.00	0.05	0.20	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.44	0.11	0.02	0.15	0.31	0.00	0.00	0.00	0.01	0.00	1.84			
1300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
1540	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16			
1550	0.00	0.00	0.00	0.00	0.00	0.16	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20			
1580	0.00	0.00	0.00	0.00	0.00	0.12	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
1590	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
1610	0.00	0.00	0.00	0.00	0.00	0.20	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24			
1690	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*			
4270	0.00	0.00	0.00	0.00	0.00	0.20	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24			
4280	0.00	0.00	0.00	0.00	0.00	0.24	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31			
4290	0.00	0.00	0.00	0.00	0.00	0.28	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43			
4300	0.00	0.00	0.00	0.00	0.00	0.35	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43			
4310	0.08	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12			
4320	0.00	0.00	0.00	0.00	0.00	0.24	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31			
4330	0.00	0.00	0.00	0.00	0.00	0.24	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28			
4340	0.00	0.00	0.00	0.00	0.00	0.20	0.04	0.00	0.00	0.00	0																					

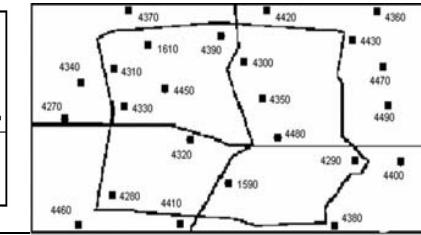
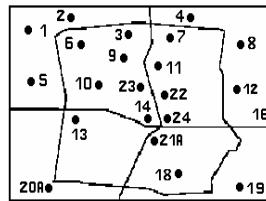
4390	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43		
4400	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35		
4410	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35		
4420	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24		
4430	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39		
4440	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.08	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27		
4450	0.00	0.00	0.00	0.00	0.00	0.04	0.28	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35		
4460	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24		
4470	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*		
4480	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28		
4490	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32		
AVG.	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.21	0.04	0.01	0.05	0.09	0.00	0.00	0.00	0.00	0.78		
SITES	52	52	52	52	52	52	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	49				
DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL



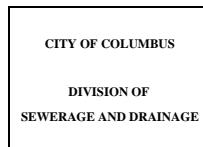
## RAIN GAUGE SUMMARY FOR MONTH OF: NOVEMBER 2005

**PREPARED BY:** Initials  
**ECS**

Note: \* - indicates invalid data not included in averages or totals



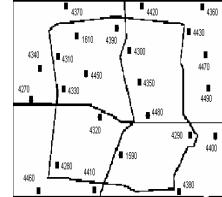
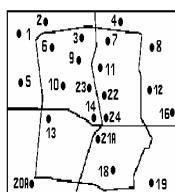
4400	0.24	0.00	0.00	0.00	0.00	0.16	0.00	0.12	0.79	0.00	0.00	0.00	0.04	0.91	1.30	0.04	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00	0.00	0.32	0.35	0.00	4.33	
4410	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.63	1.22	0.04	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00	0.00	0.00	0.32	0.32	0.00	3.35	
4420	0.20	0.00	0.00	0.00	0.00	0.16	0.00	0.04	1.42	0.00	0.00	0.00	0.00	0.51	0.79	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.04	0.24	0.35	0.00	3.82	
4430	0.24	0.00	0.00	0.00	0.00	0.04	0.00	0.20	1.22	0.00	0.00	0.00	0.04	0.59	0.83	0.04	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.04	0.28	0.32	0.00	3.86	
4440	0.24	0.00	0.00	0.00	0.00	0.20	0.00	0.04	1.50	0.00	0.00	0.00	0.00	0.55	0.59	0.04	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.04	0.32	0.32	0.00	3.86	
4450	0.24	0.00	0.00	0.00	0.00	0.12	0.00	0.04	0.20	0.00	0.00	0.00	0.00	0.51	0.99	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00	0.00	0.04	0.32	0.32	0.00	2.83	
4460	0.20	0.00	0.00	0.00	0.00	0.04	0.00	0.43	0.00	0.00	0.00	0.00	0.59	1.10	0.04	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.04	0.28	0.32	0.00	3.07		
4470	0.24	0.00	0.00	0.00	0.00	0.04	0.00	0.20	0.75	0.00	0.00	0.00	0.00	0.75	1.18	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.04	0.35	0.35	0.00	3.98	
4480	0.20	0.00	0.00	0.00	0.00	0.04	0.00	0.04	0.35	0.00	0.00	0.00	0.00	0.63	1.06	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00	0.00	0.00	0.28	0.32	0.00	2.99	
4490	0.20	0.00	0.00	0.00	0.00	0.04	0.00	0.08	0.43	0.00	0.00	0.00	0.00	0.67	1.26	0.04	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.32	0.35	0.00	3.46	
AVG.	0.23	0.00	0.00	0.00	0.00	0.09	0.00	0.18	0.52	0.00	0.01	0.00	0.02	0.57	0.95	0.03	0.00	0.00	0.00	0.00	0.07	0.02	0.00	0.00	0.03	0.30	0.31	0.00	3.38		
SITES	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	47	47	47	47	47	47	47	47	48	48	48	47	43		
DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL



**RAIN GAUGE SUMMARY FOR MONTH OF: DECEMBER 2005**

**PREPARED BY:** Initials  
ECS

Note: \* - indicates invalid data not included in averages or totals



#### **RAIN GAUGE LOCATION**

4440	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.20			
4450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.20			
4460	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28				
4470	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.08	0.00	0.08	*		
4480	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20			
4490	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.16			
AVG.	0.00	0.00	0.01	0.02	0.00	0.01	0.01	0.04	0.01	0.00	0.04	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.29	0.02	0.00	0.05	0.04	0.01	0.05	0.57	
SITES	49	49	49	49	49	49	49	48	48	49	40	40	40	40	40	40	39	39	39	48	48	48	48	49	49	49	49	49	37			
DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL

## Appendix D

### Annual Summary of Dry Weather Overflows

City of Columbus  
Annual Summary of Dry Weather Overflows - 2005

Location	Reference Number	Estimated Date and Time - if known				Receiving Water - if any	Component	Cause	Reduction/Elimination/Prevention
Sunbury Road and Fifth Avenue	between 0058s0318 and 0031s0079	reported 12/7 8:05 to 12/7 10:15				N/A	manhole	blockage - debris	CCTV'd and cleaned sewer
4054 West Broad Street	between 0163s0043 and 0163s0046	reported 12/11 14:30 to 12/11 17:30				N/A	manhole	blockage - grease	cleaned sewer, referred to Industrial Pretreatment
alley n/o Hill Avenue, w/o Perry Street	156	discovered 12/9 7:30 to 12/12 14:00				Scioto River	Design Relief	SCADA control failure at the Second Avenue pump station, SA5	reprogrammed SCADA controls
Gault Street and the alley e/o Kimball Place	193	discovered 12/27 9:45 to 12/27 10:30				N/A	Design Relief	blockage - paper	cleaned sewer
5635 Tacoma	0453s0295 and 0453s0296	reported 12/31 17:35 to 12/31 21:50				N/A	manhole	blockage - grease	cleaned sewer, referred to Industrial Pretreatment
Sunbury Road and Fifth Avenue	between 0058s0318 and 0031s0079	11/3 8:50 to 11/3 14:40				N/A	manholes	blockage - debris and dirt	cleaned sewer
2592 Baughman Avenue	between 0130s0284 and 0130s0283	11/18 22:15 to 11/19 3:30				N/A	manhole	blockage - roots, rocks and grit	cleaned sewer, cut roots
869 Afton Road	between 0174s0414 and 0125s0349	11/26 14:15 to 11/26 16:50				N/A	manhole	blockage - roots	cleaned sewer, cut roots, apply root control product
2730 Brandy Drive	between 252s0228 and 252s0215	10/31 9:45 to 10/31 11:00				N/A	manhole	blockage - grease	cleaned sewer
5323 Shiloh Drive	between 366s0013 and 366s0009	9/13 16:35 to 9/13 21:15				N/A	sump pump	blockage - grease and roots	cleaned sewer
Frank Road pump station, (SA3)	248	9/30 9:30 to 9/30 11:10				N/A	pump station	power failure	pumped wet well
2890 Northglenn Drive	0131s0191	8/23 15:15 to 8/23 16:45				unnamed ditch	manhole	blockage - debris	cleaned sewer
470 Glenmont	various	observed 8/24 and 8/25				Adena Brook	pipe	open pipe joints	as part of CIP, manholes will be rehabilitated, and sewer will be rehabilitated with CIPP
470 Glenmont	0233s292	discovered 7/12				Adena Brook	manhole	blockage - debris	cleaned manhole and sewer
470 Glenmont	unknown	discovered 7/27				Adena Brook	unknown	open pipe joints	as part of CIP, manholes will be rehabilitated, and sewer will be rehabilitated with CIPP
1922 Rock Creek Drive	0071s0056	discovered 6/14				N/A	manhole	blockage - debris	cleaned manhole and sewer
MH e/o McGuffey & Aberdeen	310	6/20 10:30 to 6/20 10:40				Olentangy River	Design Relief	blockage - sandbags	removed sandbags
161 Campus View Blvd.	between 0856s611 and 0856s0612	6/22 13:45 to 6/22 14:45				N/A	cleanout	blockage - grease	cleaned sewer, referred to Pretreatment
1810 Marley Court	between 0141s0214 and 0141s0215	5/5 14:20 to 5/5 14:55				N/A	manhole	blockage - debris	cleaned sewer
1933 Scioto Pointe Drive	0023s0941	5/17 19:45 to 5/18 0:45				Scioto River	manhole	accidental closure of sluice gate	opened sluice gate
6785 Oakton Court	0745s0162	4/4 12:40 to 4/4 14:00				N/A	manhole	blockage - grease	cleaned sewer
Castle Road pump station, (SA2)	246	4/8 8:50 to 4/9 3:00				Scioto River	force main and pump station design relief	force main failure	repaired force main
835 Brookside Court	0161s0086	4/11 17:20 to 4/11 21:50				N/A	manhole	blockage - grease and debris	cleaned sewer
Castle Road pump station, (SA2)	246	3/1 10:00 and 3/2 22:15				Kian Run	pump station	piping failure	replaced piping
Glenwood Park	0023s0077	3/28 13:40 and 3/28 14:45				N/A	manhole	blockage - medical waste	cleaned sewer - referred to
2583 Baughman Avenue	0130s0292	3/29				N/A	manhole	unknown	cleaned sewer
3193 Melissa Place	0141s0543	2/26 9:45 to 2/26 12:50				Mason Run	manhole	blockage - sticks and grease	Implement Consent Order
3087 Norwood Street	between 0178s0582 and 0178s0586	1/10 18:35 and 1/10 20:55				Alum Creek	sump pump	blockage - grease and grit	cleaned sewer
1821 Dividend Drive	0166s0145	1/10 15:50 to 1/10 19:30				Barbee Ditch	manhole	blockage - grease	cleaned sewer
839 Rhoads Avenue	0035s0440	1/26				unknown	manhole	blockage - grease	cleaned sewer

## Appendix E

### Summary of Flow Monitored Overflow Events Greater Than 1000 Gallons

**City of Columbus**  
**Summary of Flow Monitored Overflow Events**  
**Greater Than 1000 Gallons**

Location	Reference Number	Date	Estimated Volume (mg)	Sub Basin
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	1/3	0.06	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	1/3	NA	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	1/4	0.49	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	1/4	NA	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	1/5	NA	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	1/6	NA	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	1/7	NA	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	1/8	29.18	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	1/9	7.59	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	1/11	NA	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	1/12	NA	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	1/13	NA	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	1/14	NA	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	2/8	7.57	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	2/20	0.002	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	2/28	0.34	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	3/19	0.11	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	3/23	1.64	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	3/25	0.005	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	3/26	0.06	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	3/28	30.25	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	4/2	4.33	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	4/3	0.2	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	4/20	0.16	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	4/21	5.15	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	4/23	6.22	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	4/27	0.47	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	5/11	0.09	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	5/12	0.13	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	5/19	0.9	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	5/20	0.86	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	6/10	0.81	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	6/25	2.17	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	6/26	1.48	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	6/28	1.47	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	6/30	3.89	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	7/1	0.083	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	7/5	0.64	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	7/13	1.63	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	7/16	0.32	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	7/25	0.35	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	8/20	0.008	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	8/29	2.21	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	8/30	2.21	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	9/16	0.7	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	9/24	9.37	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	9/26	4.3	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	11/9	3.49	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	11/14	0.92	OSIS
e/o Whittier St. Storm Tanks (Dehler Tunnel/Franklin Main)	83	11/15	0.11	OSIS
MH Bruck & alley n/o Hosack	205	1/3	NA	OSIS
MH Bruck & alley n/o Hosack	205	1/4	NA	OSIS
MH Bruck & alley n/o Hosack	205	1/5	NA	OSIS
MH Bruck & alley n/o Hosack	205	1/6	NA	OSIS
MH Bruck & alley n/o Hosack	205	1/11	NA	OSIS

**City of Columbus**  
**Summary of Flow Monitored Overflow Events**  
**Greater Than 1000 Gallons**

Location	Reference Number	Date	Estimated Volume (mg)	Sub Basin
MH Bruck & alley n/o Hosack	205	1/12	NA	OSIS
MH Bruck & alley n/o Hosack	205	1/13	NA	OSIS
MH Bruck & alley n/o Hosack	205	1/14	NA	OSIS
MH Bruck & alley n/o Hosack	205	8/30	1.74	OSIS
MH Bruck & alley n/o Hosack	205	8/31	0.004	OSIS
MH Bruck & alley n/o Hosack	205	9/24	2.13	OSIS
MH Bruck & alley n/o Hosack	205	11/15	0.47	OSIS
MH Ninth & alley n/o Hosack	208	1/3	NA	OSIS
MH Ninth & alley n/o Hosack	208	1/5	NA	OSIS
MH Ninth & alley n/o Hosack	208	1/6	NA	OSIS
MH Ninth & alley n/o Hosack	208	1/11	0.009	OSIS
MH Ninth & alley n/o Hosack	208	1/12	0.004	OSIS
MH Ninth & alley n/o Hosack	208	3/28	0.002	OSIS
MH Ninth & alley n/o Hosack	208	9/24	0.004	OSIS
Regulator at Roads End	244	1/3	2.96	Alum Creek
Regulator at Roads End	244	1/5	5.66	Alum Creek
Regulator at Roads End	244	1/6	6.65	Alum Creek
Regulator at Roads End	244	1/11	1.67	Alum Creek
Regulator at Roads End	244	1/12	2.47	Alum Creek
Regulator at Roads End	244	3/28	0.25	Alum Creek
MH f/o 320 Kanawha	576	1/3	2.95	OSIS
MH f/o 320 Kanawha	576	1/5	10.17	OSIS
MH f/o 320 Kanawha	576	1/6	2.08	OSIS
MH f/o 320 Kanawha	576	1/11	NA	OSIS
MH f/o 320 Kanawha	576	1/12	NA	OSIS
MH f/o 320 Kanawha	576	1/13	0.0125	OSIS

## Appendix F

### Summary of Flow Monitored Overflow Events Less Than 1000 Gallons

**City of Columbus**  
**Summary of Flow Monitored Overflow Events**  
**Less Than 1000 Gallons**

Location	Reference Number	Number of Events	Sub Basin
e/o Whittier St. Storm Tanks (Deshler Tunnel/Franklin Main)	83	1	OSIS
MH Ninth & alley n/o Hosack	208	1	OSIS

## Appendix G

### Summary of Stipulated Penalties

## Summary of Stipulated Penalties - 2005

SSO Type	# of Events	Penalty	Total
Wet Weather Overflows	398	\$12,500 *	\$12,500
Dry Weather Overflows	37	\$1,500 each	<u>\$55,500</u>
Total			\$68,000
			Due by March 1, 2006

\* 1 to 250 wet weather events / yr.      \$2,500  
251 to 500 wet weather events / yr.      \$12,500  
over 500 wet weather events / yr.      \$20,000